

# Chemical Reagents

C A T A L O G U E 2 0 1 5 - 2 0 1 6





**Dear Customer,**

**We are very happy to present you the new 2015/2016 catalogue about BIOCHEM CHEMOPHARMA chemical products and reagents. All available products are in alphabetical order.**

**Several of these include customers' requests and of course yours ! We are very grateful for your contribution . Thanks a lot ...**

**The aim of our catalogue 2015/2016 is to make things easy for you : with thematic and relevant layout, Please read this usual detailed information, along with our analysis concerning all the products available. Keeping you always informed about the latest ways of using our catalogue, we hope to maintain a close relationship with you .**

**The printed and internet catalogue will help you through our line of products. We will happily provide you with any further information about our large range of products and on how to use them ... Please, feel free to contact us at any time ...**

**Sincerely .**

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**Finding us on the web, Log on to:** [www.biochemopharma.fr](http://www.biochemopharma.fr)

This is a user-friendly site brimming with useful tips and information.

The full BIOCHEM CHEMOPHARMA catalogue of chemical products and reagents is now available online ! Find all the information about products, safety, get familiar with useful tables and data for everyday laboratory work and benefit from live online updating of all data, a feature which could not be provided by the printed catalogue !.

### **Quick access**

Easy surfing, efficient search engine, online reply to numerous questions about chemistry, the site aims at being user-friendly and practical. Are you looking for a product? You can find it through its full formula, key words or part of its name... You will also find it possible to download safety technical files and up-to-date analysis certificates.

### **Useful tables for lab work**

It is always better to find accurate information than being left without a clear idea of things... From now on, you won't need to hesitate anymore : the main facts and figures related to lab work are handy on the web, such as :

- Periodical classification of elements,
- Elementary physico-chemical and inorganic compounds features,
- Solutions,
- Buffer indicators,
- Temperature indicators,
- Organic solvents,
- Elements determination physical method,
- Units conversion tables,
- Natural constants.



**Website :** [www.biochemopharma.fr](http://www.biochemopharma.fr)  
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## **Quality**

Reliability and dependability are distinctive features of BIOCHEM CHEMOPHARMA products. Successful audits carried out by the public administration and customers have confirmed that we have stood up to the high requirements of our own quality standards, which spurs us to keep improving by the advancing time.

We have the specific requirements of our customers in mind, whether for supplementary parameters or for proper certificates or special package. Of course, it goes beyond saying that our service includes individual help and on-time delivery of orders concerning our line of products.

Safety of use within your premises is guaranteed by our constant results for each batch, our specific analysis certificates concerning specification complying batches, as well as by our including a use-by-date mention and a notice explaining how to store the unopened package. Our range of qualities and products allows for use for a fairly wide range of applications. Our services will willingly answer your queries.

### **Products intended for use in the laboratory**

HPLC Gradient, HPLC, LC-MS

High Purity Solvents for Specific analysis



**AR**

**Analytical reagent.**

**UV Spectroscopy**

**UV transmittances and subject to strict IR-spectroscopic tests.**

**LR & GPR**

**Laboratory reagent for general use.**

**Other Grades : For synthesis reagent , For biochemistry reagent, For electrophoresis reagent, For Microscopy ...**

Control and specification relate to products and to their respective declaration in keeping with mentioned application. In case of implementation in unprovided for conditions, it is up to the customer to check that products used are fit for such application (see also general terms & conditions of sale).

Additional information about product quality is available at the following URL:

[www.biochemopharma.fr](http://www.biochemopharma.fr)



**BIOCHEM Chemopharma**

## Packing

Packing is meant to protect both humans and the environment. Products must be packed in an appropriate way to allow for proper shipping, storage and use by the customer. Prior to issuing a product on the market, numerous checks are carried out to ensure stability for primary packing and reagent quality over a prolonged storage period after shipping.

Concerning hazardous substances shipping, BIOCHEM CHEMOPHARMA packing technicians continually check and optimize packing so as to be provided with relevant authorizations (=N° UN). The following criteria are taken into account :

- Meeting all safety requirements,
- Meeting quality requirements, even after prolonged storage,
- No interaction between packing material and packed substance,
- No unalloyed reagent contamination,
- Practical packing,
- Environmental friendly packing.



**Relevant packing and reference order explanations follow :**

### Plastic container

2.5 L, 5 L, 10 L and 25 L PEHD containers are used for acids, bases and solvents. They come in black colour when light-sensitive products are involved. Connecting and sampling are also available.

### Aluminium flask

Aluminium flasks are used in part for some solvents as unbreakable packing.  
Benefit : 100% leak free.

### Glass flask

As glass is inert matter, it is fit for use with corrodents. Glass flasks come in brown colour, which will help protect light-sensitive products. Being watertight and impervious to vapour, they allow for great stability and henceforth prolonged storage. They are fitted with an S 28 or S 40 sealing system. Glass flasks for solids are fitted with an S 60 or S 85 sealing system. Benefit: optimal imperviousness, pressure stability. Glass flasks are shipped in UN cases with adapted inner casings (polystyrene or corrugated cardboard).

## Abbreviations

|              |                                                                                                                                                                                              |              |                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------|
| anyh         | Anhydrous.                                                                                                                                                                                   | MIN          | Minimum.                                                                                                  |
| Å            | Angstrom.                                                                                                                                                                                    | micron       | Micrometer.                                                                                               |
| abs          | Absolut.                                                                                                                                                                                     | mL           | Milliliter.                                                                                               |
| ~            | Approximately.                                                                                                                                                                               | mm           | Millimeter.                                                                                               |
| b.p.         | Boiling point in °C at 760 mm pressure, unless otherwise specified.                                                                                                                          | m.p.         | Melting point.                                                                                            |
| °C           | Celsius.                                                                                                                                                                                     | mol          | Mole.                                                                                                     |
| C.I.         | Colorant number.                                                                                                                                                                             | mmol         | Millimole.                                                                                                |
| cm           | Centimeter.                                                                                                                                                                                  | M.W.         | Molecular weight.                                                                                         |
| d.           | Density.                                                                                                                                                                                     | N            | Nomality of solution.                                                                                     |
| dec.         | Decomposes.                                                                                                                                                                                  | n            | Calcul index.                                                                                             |
| D-,L-        | Designation given to carbohydrates, amino acids, lipids and those compounds whose stereochemistry is derived from carbohydrates and amino acids, according to the corresponding conventions. | $n_D^{20}$   | Refractive index for the sodium D line at 20°C(or temperature indicated).                                 |
| D(+)-        | Specifically indicates the direction of optical rotation in addition to the D-(or L-) affix, hence providing a more accurate characterization.                                               | nm           | Nanometer.                                                                                                |
| DL-          | Denotes the racemate of a compound whose enantiomers have the designation D- or L-.                                                                                                          | pH           | Value taken to represent the acidity or alkalinity of an aqueous solution.                                |
| (+)-, ( - )- | Some natural products have adopted this designation (e.g. camphor); the systematic nomenclature of the synonym is in accordance to the sequence rule.                                        | subl.        | Sublimes.                                                                                                 |
| dia          | Diameter.                                                                                                                                                                                    | tert         | Tertiary.                                                                                                 |
| EINECS       | European Inventory of Existing Commercial Chemical Substances.                                                                                                                               | TLC          | Thin layer chromatography.                                                                                |
| f.p.         | Flash point.                                                                                                                                                                                 | UN           | Hazardous material transportation                                                                         |
| g            | Gram.                                                                                                                                                                                        | UV           | UV spectroscopy.                                                                                          |
| g/l          | Gram per liter (gas density).                                                                                                                                                                |              | identification number.                                                                                    |
| GCL          | Suitable for use gas liquid.                                                                                                                                                                 | $\lambda$    | Wavelength in nanometers.                                                                                 |
| GC           | Gas chromatography.                                                                                                                                                                          | v/v          | Volume/volume.                                                                                            |
| GPC          | Gel permeation chromatography.                                                                                                                                                               | w/v          | Weight/volume.                                                                                            |
| HPLC         | High-performance liquid chromatography.                                                                                                                                                      | w/w          | Weight/weight.                                                                                            |
| ID           | Inner diameter.                                                                                                                                                                              | >            | Grater than.                                                                                              |
| IR           | Infrared.                                                                                                                                                                                    | <sup>2</sup> | Grater than or equal to.                                                                                  |
| Kg           | Kilogram.                                                                                                                                                                                    | <            | Less than.                                                                                                |
| L or l       | Liter.                                                                                                                                                                                       | <sup>3</sup> | Less than or equal to.                                                                                    |
| m            | Meter.                                                                                                                                                                                       | [ ]          | Number in brackets after the chemical description indicate the Chemical Abstract Service Registry Number. |

# Catalogue guide

**1** 1,4-Dioxane

**2** Analytical Reagent

**3** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> MW=88.11

**4** Product code: 504390500

**5** C.A.S. : 123-91-1

**6** EINECS : 204-661-8

**7** Assay %

**8** Wt.per ml at 20 °C

**9** APHA Color

**10** Freezing point °C

**11** Refractive index

**12** Water %

**13** Acidity (CH<sub>3</sub>COOH) %

**14** Non volatile matter %

Acetal [CH<sub>3</sub>CH(OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>]

Copper (Cu) %

Iron (Fe) %

Lead (Pb)%

Min 99.5

1.032 - 1.034 g

Max 10

Min 11

1.421 - 1.423

Max 0.05

Max 0.02

Max 0.01

Max 0.8

Max 0.0001

Max 0.0001

Max 0.0001

**15** H225-H351-H319-H335

**16** P210-P261-P303-P361-P353-P305-P351-P338-P405-P501

- 1 - Product name.**
- 2 - Product number.**
- 3 - Product quality.**
- 4 - C.A.S number.**
- 5 - Formula.**
- 6 - Mass weight.**
- 7 - H: Hazard**
- 8 - Hazard warning symbols.**
- 9 - EINECS number.**
- 10 - Package size.**
- 11 - Specification.**
- 12 - Batch number**
- 13 - Shelf life time**
- 14 - Safety information**
- P: Precautionary**

**15** H225-H351-H319-H335

**16** P210-P261-P303-P361-P353-P305-P351-P338-P405-P501

**17** BIOCHEM Chemopharma

**18** Product code: 504271000

**19** C.A.S. : 123-91-1

**20** EINECS : 204-661-8

**21** Batch N°: L504271000-0115-011

**22** 1,4-Dioxane

**23** For Synthesis

**24** MW=88.11

**25** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>

**26** Content : 1 L

**27** Assay %

**28** Wt.per ml at 20 °C

**29** Water %

**30** Free acid (CH<sub>3</sub>COOH) %

**31** Peroxide (as H<sub>2</sub>O<sub>2</sub>) %

**32** Min 99

**33** 1.030 - 1.035 g

**34** Max 0.1

**35** Max 0.01

**36** Max 0.005

**37** BIOCHEM Chemopharma

**38** ZA Cosne sur Loire, 58200 France

**39** Tél : + 33(3)86.27.24.96

**40** Spécifications guaranteed

**41** Until : 01/2020

**42** Tested for laboratory use only



## **ALPHABETICAL INDEX**

***[Http://www.biochemopharma.fr](http://www.biochemopharma.fr)***

## Acacia

Laboratory Reagent

**Product code:** 300880500

**C.A.S. :** 9000-01-5

**500 gr**

**EINECS :** 232-519-5

|                      |                         |
|----------------------|-------------------------|
| Description          | A cream coloured powder |
| Identity             | Passes test             |
| Agar & tragacanth    | Passes test             |
| Starch & dextrin     | Passes test             |
| Tannin               | Passes test             |
| Sucrose and fructose | Passes test             |
| Insoluble matter %   | Max. 0.5                |
| Sulfated Ash %       | Max. 5.0                |
| Acid insoluble ash % | Max. 1.0                |
| Loss on drying %     | Max. 15.0               |



H315-H319-H335

P261-P280-P305+P351+P338-P304-P405-P501A

## ACES

Laboratory Reagent

$C_4H_{10}N_2O_4S$  MW =182.20

**Product code:** 300860025

**C.A.S. :** 7365-82-4

**25 gr**

**EINECS :** 230-908-4

|                                            |            |
|--------------------------------------------|------------|
| Assay (alkametric) %                       | Min 99     |
| Identity (IR spectrum)                     | passe test |
| UV-absorption<br>(250 nm; 2% 1 cm water) % | Max 0.05   |
| Chloride (Cl) %                            | Max 0.05   |
| Sulfate (SO <sub>4</sub> ) %               | Max 0.05   |
| Heavy metals (as Pb) %                     | Max 0.0005 |
| Sodium (Na) %                              | Max 0.005  |
| Loss on drying (105 °C)                    | Max 0.2    |
| pH                                         | 3.0 - 4.5  |

## Acetamide

For Synthesis

$C_2H_5NO$  MW =59.07

**Product code:** 501000250/0500

**C.A.S. :** 60-35-5

**250 gr**

**EINECS :** 200-473-5

|                                 |         |
|---------------------------------|---------|
| Assay %                         | Min 99  |
| Melting range (after drying) °C | 78 - 81 |



H351

P280H

## Acetanilide

Laboratory Reagent

$C_8H_9NO$  MW =135.17

**Product code:** 501160250/0500

**C.A.S. :** 103-84-4

**250 gr**

**EINECS :** 203-150-7

|                  |           |
|------------------|-----------|
| Assay %          | Min 98.5  |
| Melting range °C | 114 - 116 |
| Sulfated ash %   | Max 0.05  |
| pH (1% aqueous)  | 5.0 - 7.0 |



H302-H315-H319-H335

P261-P280-P305-P351-P338-P304-P405-P501A

## Acetic acid glacial

Analytical Reagent

$C_2H_4O_2$  MW=60.04

**Product code:** 101122500

**C.A.S. :** 64-19-7

**2.5 L**

**EINECS :** 200-580-7

|                                     |                 |
|-------------------------------------|-----------------|
| Assay (acidimetric) %               | Min 99.7        |
| Freezing point °C                   | Min 16.2        |
| Wt. per ml at 20 °C                 | 1.048 - 1.050 g |
| Acetic anhydride $[(CH_3CO)_2O]$ %  | Max 0.2         |
| Formate (H.COO) %                   | Max 0.05        |
| Water insoluble matter              | Passes test     |
| Water %                             | Max 0.2         |
| Sulfate (SO <sub>4</sub> ) %        | Max 0.0001      |
| Non-volatile matter %               | Max 0.001       |
| Chloride (Cl) %                     | Max 0.0001      |
| Arsenic (As) %                      | Max 0.00005     |
| Copper (Cu) %                       | Max 0.00004     |
| Iron (Fe) %                         | Max 0.00002     |
| Lead (Pb) %                         | Max 0.00001     |
| Substance reducing dichromate (O) % | Max 0.003       |



H314-H226

P210-P241-P303-P361-P353-P353-P305-P351-P338-P405-P501

## Acetic Acid 0.1 M (0.1N)

Standardized solution

traceable to NIST

$C_2H_4O_2$  MW =60.04

**Product code:** BVS01001

**C.A.S. :** 64-19-7

**1 L**

**EINECS :** 200-580-7

## Acetic Acid 1 M (1N)

Standardized solution

traceable to NIST

$C_2H_4O_2$  MW =60.04

**Product code:** BVS01010

**C.A.S. :** 64-19-7

**1 L**

**EINECS :** 200-580-7

## Acetic acid glacial

For Synthesis

$C_2H_4O_2$  MW =60.04

**Product code:** 101132500

**C.A.S. :** 64-19-7

**2.5 L**

**EINECS :** 200-580-7

|                              |                 |
|------------------------------|-----------------|
| Assay (acidimetric) %        | Min 99.5        |
| Wt. per ml at 20 °C          | 1.047 - 1.052 g |
| Freezing point °C            | 15.5            |
| Chloride (Cl) %              | Max 0.0005      |
| Sulfate (SO <sub>4</sub> ) % | Max 0.0005      |
| Arsenic (As) %               | Max 0.0002      |
| Iron (Fe) %                  | Max 0.0002      |
| Lead (Pb) %                  | Max 0.0002      |
| Non volatile matter %        | Max 0.01        |



H314-H226

P210-P241-P303-P361-P353-P353-P305-P351-P338-P405-P501

## Acetic acid glacial

HPLC  
C<sub>2</sub>H<sub>4</sub>O<sub>2</sub> MW =60.04

**Product code:** 101461000

**C.A.S. :** 64-19-7

**1 L**

**EINECS :** 200-580-7

|                                      |             |
|--------------------------------------|-------------|
| Assay (GC) %                         | Min 99.8    |
| Identity                             | Passes test |
| APHA color                           | Max 10      |
| Non-volatile matter %                | Max 0.001   |
| Water (H <sub>2</sub> O) %           | Max 0.05    |
| Transmission (1 cm cell; Ref.:water) |             |
| At 254 nm %                          | Min 25      |
| At 280 nm %                          | Min 95      |
| At 300 nm %                          | Min 98      |
| UV-Cut off                           | 250 nm      |
| Rohrschneider Polarity               | 6.0         |



H314-H226  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501

## Acetone

Analytical Reagent  
C<sub>3</sub>H<sub>6</sub>O MW =58.08

**Product code:** 200992500

**C.A.S. :** 67-64-1

**2.5 L**

**EINECS :** 200-662-2

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99.5   |
| Water (KF) %             | Max 0.3    |
| Residue on Evaporation % | Max 0.001  |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Methanol (GC) %          | Max 0.05   |



H225-H319-H336  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Acetone

HPLC & Spectroscopy  
C<sub>3</sub>H<sub>6</sub>O MW =58.08

**Product code:** 201031000

**C.A.S. :** 67-64-1

**1 L**

**EINECS :** 200-662-2

|                                                |            |
|------------------------------------------------|------------|
| Assay (GC) %                                   | Min 99.8   |
| Non Volatile matter %                          | Max 0.0001 |
| Acidity (CH <sub>3</sub> COOH) %               | Max 0.002  |
| Water %                                        | Max 0.5    |
| Transmission in a 1.0 cm cell against water at |            |
| At 330 nm %                                    | Min 15     |
| At 335 nm %                                    | Min 55     |
| At 340 nm %                                    | Min 85     |
| At 345 nm %                                    | Min 95     |
| At 350 nm %                                    | Min 98     |



H225-H319-H336  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Acetone

Laboratory Reagent  
C<sub>3</sub>H<sub>6</sub>O MW =58.08

**Product code:** 201272500

**C.A.S. :** 67-64-1

**2.5 L**

**EINECS :** 200-662-2

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99     |
| Water (KF) %             | Max 0.5    |
| Residue on Evaporation % | Max 0.005  |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |



H225-H319-H336  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Acetonitrile

HPLC  
C<sub>2</sub>H<sub>3</sub>N MW =41.05

**Product code:** 201082500

**C.A.S. :** 75-05-8

**2.5 L**

**EINECS :** 200-835-2

|                                  |            |
|----------------------------------|------------|
| Assay (by GC) %                  | Min. 99.9  |
| Water (KF) %                     | Max 0.02   |
| Acidity (meq/g) (meq/g)          | Max 0.0005 |
| Residue on Evaporation %         | Max 0.0005 |
| UV - transmittion (1 cm, water): |            |
| 240 nm %                         | Min 98     |
| 250 nm %                         | Min 99     |



H225-H332-H312-H302-H319  
P210-P280-P305-P351-P338-P309-P310

## Acetonitrile

HPLC Gradient  
C<sub>2</sub>H<sub>3</sub>N MW =41.05

**Product code:** 200122500

**C.A.S. :** 75-05-8

**2.5 L**

**EINECS :** 200-835-2

|                                    |             |
|------------------------------------|-------------|
| Assay (by GC) %                    | Min 99.9    |
| Water (KF) %                       | Max 0.02    |
| Acidity (meq/g)                    | Max 0.0005  |
| Residue on Evaporation %           | Max 0.0005  |
| UV - transmittion (1 cm, water): - |             |
| 190 nm %                           | Min 30      |
| 195 nm %                           | Min 80      |
| 200 nm %                           | Min 93      |
| 220 nm %                           | Min 98      |
| 230 nm %                           | Min 99      |
| Gradient specifications (210 nm) - |             |
| Largest peak (mAU)                 | Max 3       |
| Baseline drift (mAU)               | Max 15      |
| Filtration (0.2 um)                | passes test |



H225-H332-H312-H302-H319  
P210-P280-P305-P351-P338-P309-P310

## Acetonitrile

LC-MSChrom  
 $C_2H_3N$  MW =41.05

**Product code:** 201102500

**C.A.S. :** 75-05-8

**2.5 L**

**EINECS :** 200-835-2

|                                                          |             |
|----------------------------------------------------------|-------------|
| Assay (by GC) %                                          | Min 99.9    |
| Water (KF) %                                             | Max 0.02    |
| Acidity (meq/g)                                          | Max 0.0005  |
| Residue on Evaporation %                                 | Max 0.0005  |
| UV - transimtion (1 cm, water): -                        |             |
| 190 nm %                                                 | Min 30      |
| 200 nm %                                                 | Min 80      |
| 210 nm %                                                 | Min 93      |
| 220 nm %                                                 | Min 98      |
| 230 nm %                                                 | Min 99      |
| Gradient specifications (210 nm) -Largest peak (mAU)     | Max 3       |
| Gradient specifications (254 nm) - Largest peak (mAU)    | Max 1       |
| Magnesium (Mg) (ppm)                                     | Max 0.1     |
| Potassium (K) (ppm)                                      | Max 0.1     |
| Sodium (Na) (ppm)                                        | Max 0.1     |
| Calcium (Ca) (ppm)                                       | Max 0.1     |
| Filtration (0,2 um)                                      | passes test |
| Interfering of peaks caused by impurities determined as: |             |
| -Lindane (GC/ECD) Max 5ng/l                              |             |
| or Parathion (GC/NPD)Max 10ng/l                          | passes test |



H225-H332-H312-H302-H319  
P210-P280-P305-P351-P338-P309-P310

## Acetonitrile

PestiChrom  
 $C_2H_3N$  MW =41.05

**Product code:** 201092500

**C.A.S. :** 75-05-8

**2.5 L**

**EINECS :** 200-835-2

|                                                          |             |
|----------------------------------------------------------|-------------|
| Assay (by GC) %                                          | Min 99.9    |
| Water %                                                  | Max 0.2     |
| Acidity (meq/g)                                          | Max 0.0005  |
| Residue on Evaporation %                                 | Max 0.0005  |
| Interfering of peaks caused by impurities determined as: |             |
| - Lindane (GC/ECD) max.5ng/l                             |             |
| or Parathion (GC/NPD)max.10ng/l                          | passes test |



H225-H332-H312-H302-H319  
P210-P280-P305-P351-P338-P309-P310

## Acetophenone

Analytical Reagent  
 $C_8H_8O$  MW =120.15

**Product code:** 501010500

**C.A.S. :** 98-86-2

**500 ml**

**EINECS :** 202-708-7

|                                          |                    |
|------------------------------------------|--------------------|
| Assay %                                  | Min 99.5           |
| Wt.per ml at 20 °C                       | 1.025 - 1.027 g/ml |
| Freezing point °C                        | 18 - 20            |
| Refractive index (n <sub>20 °C/D</sub> ) | 1.5325 - 1.5345    |
| Phenol %                                 | Max 0.005          |



H302-H319  
P280-P264-P305-P351-P338-P301-P312-P3376P313-P501

## Acetylacetone

Analytical Reagent  
 $C_5H_8O_2$  MW =100.12

**Product code:** 304040500

**C.A.S. :** 123-54-6

**500 ml**

**EINECS :** 204-634-0

|                       |              |
|-----------------------|--------------|
| Assay %               | Min 99.5     |
| Copper (Cu) %         | Max 0.000002 |
| Chromium (Cr) %       | Max 0.000002 |
| Water %               | Max 0.05     |
| Non volatile matter % | Max 0.005    |
| Aluminium (Al) %      | Max 0.00005  |
| Barium (Ba) %         | Max 0.00001  |
| Boron (B) %           | Max 0.000002 |
| Cadmium (Cd) %        | Max 0.000005 |
| Calcium (Ca) %        | Max 0.00005  |
| Cobalt (Co) %         | Max 0.000002 |
| Iron (Fe) %           | Max 0.00001  |
| Lead (Pb) %           | Max 0.00001  |
| Magnesium (Mg) %      | Max 0.00001  |
| Manganese (Mn) %      | Max 0.000002 |
| Nickel (Ni) %         | Max 0.000002 |
| Tin (Sn) %            | Max 0.00001  |
| Zinc (Zn) %           | Max 0.00001  |



H225-H315-H319-H335  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501a

## Acetylacetone

For Synthesis  
 $C_5H_8O_2$  MW =100.12

**Product code:** 300240500

**C.A.S. :** 123-54-6

**500 ml**

**EINECS :** 204-634-0

|                     |                  |
|---------------------|------------------|
| Assay %             | Min 98.0         |
| Refractive index    | 1.451-1.453      |
| Wt. per ml at 20 °C | 0.971-0.974 g/ml |



H225-H315-H319-H335  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501a

## Acetyl chloride

For Synthesis  
 $C_2H_3ClO$  MW =78.50

**Product code:** 300280500

**C.A.S. :** 75-36-5

**500 ml**

**EINECS :** 200-865-6

|                              |                 |
|------------------------------|-----------------|
| Assay %                      | 98 - 102        |
| Wt.per ml at 20 °C           | About 1.10 g/ml |
| Non volatile matter %        | Max 0.05        |
| Phosphorous compounds (P) %  | Max 0.005       |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01        |



H225-H314-H318-H302  
P210-P260-P303-P361-P353-P305-P351-P338-P405-P501A

## Acridine orange

For Microscopy  
 $C_{17}H_{20}Cl_3N_3Zn$  MW =438.09

**Product code:** 300270010

**C.A.S. :** 10127-02-3

**10 gr**

**EINECS :** 233-353-6

Absorption maxima (in 50% ethanol)  
Absorptivity (1% 1cm, 1 max. 50% ethanol)  
Loss on drying at 110°C %

489 - 493 nm  
Min 950  
Max. 5



H341  
P281-P201-P202-P308-P313-P405-P501A

## Acriflavin

For Biochemistry  
 $C_{14}H_{14}ClN_3$  MW =259.74

**Product code:** 300210005/0025

**C.A.S. :** 8063-24-9

**5 gr  
25 gr**

Absorption maxima (in 50% ethanol)  
Absorptivity (1% 1cm, 1 max. 50% ethanol)  
Loss on drying at 110°C %

489 - 493 nm  
Min 950  
Max. 5

## Acrylamide

For Electrophoresis  
 $C_3H_5NO$  MW =71.08

**Product code:** 501050500

**C.A.S. :** 79-06-1

**500 gr**

**EINECS :** 201-173-7

Assay (acidimetric, after saponification) %  
Melting range °C  
Free acid (as acrylic acid) %  
Water %

Min 99.0  
83-85  
Max 0.001  
Max 0.1



H301-H312-H315-H317-H319-H332-H340-H350-H361-H372  
P201-P280-P301-P310-P305-P351-P338-P308-P313

## Acrylic acid

For Synthesis  
 $C_3H_4O_2$  MW =72.06

**Product code:** 500520500

**C.A.S. :** 79-10-7

**500 ml**

**EINECS :** 201-177-9

Stabilized with 200 ppm Hydroquinone Monomethyl Ether

Assay %  
Density (d20°C/4°C)  
Refractive index (n20°/D)

Min 99  
1.048 - 1.052  
1.420 - 1.4224



H226-H302-H312-H332-H314-H335-H400  
P261-P273-P280-P305-P351-P338-P310

## Acrylonitrile (stabilised)

Laboratory Reagent  
 $C_3H_3N$  MW =53.06

**Product code:** 201290500

**C.A.S. :** 107-13-1

**500 ml**

**EINECS :** 203-466-5

Assay %  
Wt. per ml at 20 °C  
Refractive index

Min 99  
0.805 - 0.807g/ml  
1.390 - 1.392



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411  
P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Adenine

For Biochemistry  
 $C_5H_5N_5$  MW=135.13

**Product code:** 504470005

**C.A.S. :** 73-24-5

**5 gr**

**EINECS :** 200-796-1

Assay %  
Identification  
Appearance of solution  
Acidity or alkalinity  
Related substances  
Chloride (Cl) %  
Sulfate (SO<sub>4</sub>) %  
Ammonium (NH<sub>4</sub>) %  
Heavy metals (as Pb) %  
Loss on drying %  
Residue on ignition  
Organic volatile impurities  
Residual solvents  
Nitrogen content

Min 99  
passes test  
passes test  
passes test  
passes test  
Max 0.01  
Max 0.03  
Max 0.001  
Max 0.001  
Max 0.05  
Max 0.1  
passes test  
passes test  
50.2-53.4



H302  
P264-P270-P301-P312-P330-P501A

## Adenosine

For Biochemistry  
 $C_{10}H_{13}N_5O_4$  MW=267.25

**Product code:** 504510005

**C.A.S. :** 58-61-7

**5 gr**

**EINECS :** 200-389-9

Assay %  
Melting range °C  
Heavy metals (as Pb)

Min 99  
235 - 238 °C  
Max 0.001

## Adipic Acid

Laboratory Reagent  
 $C_6H_{10}O_4$  MW =146.14

**Product code:** 101020500

**C.A.S. :** 124-04-9

**500 gr**

**EINECS :** 204-673-3

Assay %  
Solubility  
Melting point °C  
IR spectrum  
Appearance of solution  
Chloride (Cl) %  
Nitrate (NO<sub>3</sub>) %  
Sulfate (SO<sub>4</sub>) %  
Iron (Fe) %  
Heavy metals (as Pb) %  
Loss on drying %  
Sulfated ash %

99.0-101.0  
Passes test  
151-154  
Passes test  
Passes test  
Max 0.02  
Max 0.003  
Max 0.05  
Max 0.001  
Max 0.001  
Max 0.2  
Max 0.1



H319  
P305-P351-P338



## Agar powder bacteriological For Microbiology

**Product code:** DM1000500 **500 gr**

|                                                             |                                                        |
|-------------------------------------------------------------|--------------------------------------------------------|
| Description                                                 | white to yellowish white or pale yellow powder         |
| Solubility                                                  | 1.5% insoluble in cold water, soluble in boiling water |
| Clarity of soln. (1.5% solution in water After autoclaving) | passes test                                            |
| Loss on drying (105°C) %                                    | Max 20.0                                               |
| Residue on ignition %                                       | Max 5.0                                                |
| Gelling temp                                                | Below 40°C                                             |
| Gel formation (1.5% aq solution)                            | passes test                                            |
| Foreign strach                                              | passes test                                            |
| Total bacerial count (cuf/g)                                | less than 1000                                         |

## Agar powder extra pure For Microbiology

**Product code:** DM1100500 **500 gr**

|                                                                |                                                      |
|----------------------------------------------------------------|------------------------------------------------------|
| Description                                                    | with to yellowish wither or pale yellow powder       |
| Solubility                                                     | insoluble in cold water and soluble in boiling water |
| Clarity of solution (1.5% solution in water after autoclaving) | passes test                                          |
| Loss on drying (105°) %                                        | Max 20.0                                             |
| Residue on ignition %                                          | Max 5.0                                              |
| Gelling temperature                                            | Not more than 38°C                                   |

## Agarose high EEO For Microbiology

**Product code:** DM0500025 **25 gr**

**C.A.S. :** 9012-36-6

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Description                 | a white free flowing powder             |
| Solubility                  | 1.5% hot aq. Soln is clear & colourless |
| Gel strenght (1.5% gel)     | Min 800 g\cm <sup>2</sup>               |
| Loss on drying %            | Max 10.0                                |
| Sulafe (SO <sub>4</sub> ) % | Max 0.5                                 |
| Sulfated ash %              | Max 1.0                                 |
| EEO (Mr)                    | 0.25 - 0.30                             |
| Gelling tem (1.5% gel)      | 3.6±1.5 °C                              |
| A 1.5 aq ~ 50°C 430 nm      | 0.1                                     |
| A 1.5 aq ~ 525 nm           | 0.05                                    |
| A 1.5 aq ~ 625 nm           | 0.03                                    |

## Agarose low EEO For Microbiology

**Product code:** DM0530025 **25 gr**

**C.A.S. :** 9012-36-6

|                            |                                         |
|----------------------------|-----------------------------------------|
| Description                | a white free flowing powder             |
| Solubility                 | 1.5% hot aq. Soln is clear & colourless |
| Gel strenght (1.5% gel)    | Min 800 g\cm <sup>2</sup>               |
| Loss on drying %           | Max 10.0                                |
| Sulfated ash %             | Max 0.75                                |
| Sulfate (SO <sub>4</sub> ) | Max 0.2                                 |
| EEO (-Mr)                  | 0.10 - 0.15                             |
| Gelling tem (1.5% gel)     | 38± 40 °C                               |
| A 1.5 aq ~ 50°C 430 nm     | 0.1                                     |
| A 1.5 aq ~ 430 nm          | 0.05                                    |
| A 1.5 aq ~ 430 nm          | 0.03                                    |

## Agarose medium EEO type (I) For Microbiology

**Product code:** DM0510025 **25 gr**

**C.A.S. :** 9012-36-6

|                            |                                         |
|----------------------------|-----------------------------------------|
| Description                | a white free flowing powder             |
| Solubility                 | 1.5% hot aq. Soln is clear & colourless |
| Gel strenght (1.5% gel)    | Min 1500mg\cm <sup>2</sup>              |
| Loss on drying %           | Max 10.0                                |
| Sulfated ash %             | Max 1.0                                 |
| Sulfate (SO <sub>4</sub> ) | Max 0.2                                 |
| EEO (Mr)                   | 0.15 - 0.20                             |
| Gelling temperature        | 36 °C                                   |
| A 1.5 aq ~ 50°C 430 nm     | 0.01                                    |
| A 1.5 aq ~ 525 nm          | 0.05                                    |
| A 1.5 aq ~ 655 nm          | 0.03                                    |

## β-Alanine

For Biochemistry

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> MW=89.09

**Product code:** 502040025

**C.A.S. :** 107-95-9 **25 gr**

**EINECS :** 203-536-5

|                            |            |
|----------------------------|------------|
| Assay %                    | Min 99.0   |
| Loss on drying at 110 °C % | Max 0.5    |
| Sulfated ash %             | Max 0.1    |
| Iron (Fe) %                | Max 0.0005 |
| Lead (Pb) %                | Max 0.002  |

## D-Alanine

For Biochemistry

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> MW=89.09

**Product code:** 502120025

**C.A.S. :** 338-69-2 **25 gr**

**EINECS :** 206-418-1

|                                     |              |
|-------------------------------------|--------------|
| Assay %                             | Min 99.0     |
| Specific rotation [α] <sub>20</sub> | -17.5 +/- 1° |
| Specific rotation [α] <sub>20</sub> | -14.0 +/- 1° |

## DL-Alanine

For Biochemistry

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> MW=89.09

**Product code:** 504360025

**C.A.S. :** 302-72-7 **25 gr**

**EINECS :** 206-126-4

|                                       |           |
|---------------------------------------|-----------|
| Assay (HClO <sub>4</sub> titration) % | Min 99.0  |
| Heavy metals (as Pb) %                | Max 0.001 |

## L-Alanine

For Biochemistry

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> MW =89.09

**Product code:** 502130025

**C.A.S. :** 56-41-7 **25 gr**

**EINECS :** 206-126-4

|                                               |              |
|-----------------------------------------------|--------------|
| Assay (HClO <sub>4</sub> titration) %         | Min 99.0     |
| Heavy metals (as Pb) %                        | Max 0.001    |
| Ammonium (NH <sub>4</sub> ) %                 | Max 0.01     |
| Foreign amino acids %                         | Max 0.3      |
| Ninhydrine positive substances (as glycine) % | Max 0.1      |
| Specific rotation                             | +14° to +15° |

## Albumine bovine serum fraction V

Laboratory Reagent

**Product code:** 501020005

**C.A.S. :** 9048-46-8

**EINECS :** 232-936-2

|               |            |
|---------------|------------|
| Assay %       | Min 98.5   |
| Nitrogen %    | Min 15.5   |
| pH (5% water) | ~6.8 - 7.2 |

5 gr

## Alginate acid

Laboratory Reagent

(C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>)<sub>n</sub> MW =48000-186000

**Product code:** 501270500

**C.A.S. :** 9005-32-7

**EINECS :** 232-680-1

|                                 |            |
|---------------------------------|------------|
| Arsenic (As) %                  | Max 0.0005 |
| Iron (Fe) %                     | Max 0.03   |
| Heavy Metals (as Pb) %          | Max 0.004  |
| Loss on drying (105 °C, 4hrs) % | Max 15.0   |
| Ash %                           | Max 4.0    |

500 gr

## Alizarin

Analytical Reagent

C<sub>14</sub>H<sub>8</sub>O<sub>4</sub> MW =240.20

**Product code:** 500530025

**C.A.S. :** 72-48-0

**EINECS :** 200-782-5

|                                   |                          |
|-----------------------------------|--------------------------|
| pH 5.5- 6.8                       | Yellow to reddish-violet |
| Absorption max1 in NaOH 0.1 mol/l | 564 - 568 nm             |
| Absorption max2 in NaOH 0.1 mol/l | 605 - 609 nm             |
| A 1%, 1cm, λ 2max                 | Min 525                  |
| Sulfatash %                       | Max 1                    |
| Loss on drying %                  | Max 5                    |
| A 1%, 1cm, λ 1max                 | Min 625                  |
| A 1%, 1cm, λ 2max                 | Min 525                  |

25 gr



H319  
P264-P280-P305-P351-P338-P337-P313

## Alizarin red S

Analytical Reagent

C<sub>14</sub>H<sub>7</sub>NaO<sub>7</sub>S MW =342.3

**Product code:** 401190025

**C.A.S. :** 130-22-3

25 gr

|                                |                     |
|--------------------------------|---------------------|
| Dye Content %                  | Min 70.0            |
| Transition range pH 4.3-6.3    | Yellow-Pink         |
| pH 9.4-12.0                    | Brown orange-Violet |
| Solubility 0.1% in water       | Clear solution      |
| Absorption maxima in 0.1N NaOH | 553-559 nm          |
| Absorption maxima in 0.1N NaOH | 592-599 nm          |
| Absorptivity (A1%/1cm at 556)  | Min 350.0           |
| Absorptivity (A1%/1cm at 595)  | Min 325.0           |
| Loss on drying (110 °C) %      | Max 5.0             |



H319-H335-H315  
P280-P302-P352-P304-P340-P305-P351+P338-P309-P311

## Aluminium fine powder

Laboratory Reagent

Al MW =26.98

**Product code:** 301230250/0500

**C.A.S. :** 7429-90-5

**EINECS :** 231-072-3

|                           |           |
|---------------------------|-----------|
| Assay %                   | Min 98    |
| Silicon (Si) %            | Max 0.1   |
| Copper (Cu) %             | Max 0.02  |
| Nitrogen content (as N) % | Max 0.001 |
| Insoluble in dil HCl %    | Max 0.005 |
| Iron (Fe) %               | Max 0.1   |
| Manganese (Mn) %          | Max 0.02  |
| Titanium (Ti) %           | Max 0.03  |



H250-H261  
P210-P222-P231-P232-P370-P378B-P422A-P501A

## Aluminium ammonium sulfate dodecahydrate

Analytical Reagent

AlNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O MW=453.32

**Product code:** 301120500

**C.A.S. :** 7784-26-1

**EINECS :** 232-055-3

|                                |                      |
|--------------------------------|----------------------|
| Assay %                        | 98-102               |
| Phosphate (PO <sub>4</sub> ) % | Max 0.0025           |
| Insoluble matter %             | Max 0.005            |
| Reaction %                     | Not less than pH 3.0 |
| Chloride (Cl) %                | Max 0.001            |
| Nitrate (NO <sub>3</sub> ) %   | Max 0.001            |
| Silicate (SiO <sub>2</sub> ) % | Max 0.002            |
| Arsenic (As) %                 | Max 0.00005          |
| Copper (Cu) %                  | Max 0.0005           |
| Iron (Fe) %                    | Max 0.001            |
| Lead (Pb) %                    | Max 0.001            |
| Potassium (K) %                | Max 0.05             |
| Sodium (Na) %                  | Max 0.01             |



H315-H319-H335  
P261-P302-P352-P305-P338-P321-P405-P501

## Aluminium chloride hexahydrate

Analytical Reagent

AlCl<sub>3</sub>·6H<sub>2</sub>O MW=241.43

**Product code:** 301080500

**C.A.S. :** 7784-13-6

**EINECS :** 231-208-1

|                              |           |
|------------------------------|-----------|
| Assay (AT) %                 | Min 99    |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005 |
| Calcium (Ca) %               | Max 0.01  |
| Cadmium (Cd) %               | Max 0.005 |
| Cobalt (Co) %                | Max 0.005 |
| Copper (Cu) %                | Max 0.005 |
| Iron (Fe) %                  | Max 0.005 |
| Potassium (K) %              | Max 0.01  |
| Sodium (Na) %                | Max 0.05  |
| Nickel (Ni) %                | Max 0.005 |
| Lead (Pb) %                  | Max 0.005 |
| Zinc (Zn) %                  | Max 0.005 |



H314  
P280-P303-P361-P353-P305-P351-P338-P310

## Aluminium chloride hexahydrate Laboratory Reagent

$\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$  MW=241.43

**Product code:** 302270500

**C.A.S. :** 7784-13-6

**500 gr**

**EINECS :** 231-208-1

|                                                                      |            |
|----------------------------------------------------------------------|------------|
| Assay %                                                              | 97 - 101   |
| Sulfate ( $\text{SO}_4$ ) %                                          | Max 0.01   |
| Heavy metals (as Pb) %                                               | Max 0.005  |
| Arsenic (As) %                                                       | Max 0.0004 |
| Iron (Fe) %                                                          | Max 0.005  |
| Substances not preprecipitate by $\text{NH}_3$ (as $\text{SO}_4$ ) % | Max 0.2    |



H314  
P280-P303-P361-P353-P305-P351-P338-P310

## Aluminium potassium sulfate dodecahydrate

Analytical Reagent

$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$  MW=474.38

**Product code:** 314510500

**C.A.S. :** 7784-24-9

**500 gr**

**EINECS :** 233-141-3

|                              |              |
|------------------------------|--------------|
| Assay (Complexometry) %      | 99.0 - 102.0 |
| Insoluble matter %           | Max 0.005    |
| pH of 10% solution water     | 3.0 - 3.5    |
| Chloride (Cl) %              | Max 0.0005   |
| Ammonium ( $\text{NH}_4$ ) % | Max 0.005    |
| Arsenic (As) %               | Max 0.0002   |
| Copper (Cu) %                | Max 0.0005   |
| Iron (Fe) %                  | Max 0.0005   |
| Heavy metal (as Pb) %        | Max 0.001    |
| Sodium (Na) %                | Max 0.02     |
| Loss on drying (at 400 °C) % | 43 - 46      |

## Aluminium potassium sulfate dodecahydrate

Laboratory Reagent

$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$  MW=474.38

**Product code:** 314680500

**C.A.S. :** 7784-24-9

**500 gr**

**EINECS :** 233-141-3

|                              |          |
|------------------------------|----------|
| Assay (ex Al) %              | 99 - 102 |
| Ammonium ( $\text{NH}_4$ ) % | Max 0.05 |
| Chloride (Cl) %              | Max 0.01 |
| Iron (Fe) %                  | Max 0.01 |
| Lead (Pb) %                  | Max 0.01 |

## Aluminium sulfate octadecahydrate Analytical Reagent

$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$  MW=666.42

**Product code:** 301210500

**C.A.S. :** 7784-31-8

**500 gr**

|                                                                                       |            |
|---------------------------------------------------------------------------------------|------------|
| Assay [ $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$ ] by EDTA titration % | 98 - 102   |
| Insoluble matter %                                                                    | Max 0.005  |
| Reaction                                                                              | Min pH 2.5 |
| Chloride (Cl) %                                                                       | Max 0.001  |
| Ammonium ( $\text{NH}_4$ ) %                                                          | Max 0.002  |
| Copper (Cu) %                                                                         | Max 0.001  |
| Iron (Fe) %                                                                           | Max 0.002  |
| Heavy metals (as Pb) %                                                                | Max 0.001  |
| Calcium (Ca) %                                                                        | Max 0.01   |
| Magnesium (Mg) %                                                                      | Max 0.002  |
| Potassium (K) %                                                                       | Max 0.005  |
| Sodium (Na) %                                                                         | Max 0.02   |
| Substance not precipitated by ammonia (as $\text{SO}_4$ ) %                           | Max 0.2    |



H318  
P280-P305-P351-P338-P310

## Aluminium hydroxide gel

Laboratory Reagent

$\text{Al}(\text{OH})_3$  MW=78.0

**Product code:** 302280500

**C.A.S. :** 21645-51-2

**500 gr**

**EINECS :** 244-492-7

|                                       |                  |
|---------------------------------------|------------------|
| Assay (as $\text{Al}_2\text{O}_3$ ) % | 47.0 - 60.0      |
| Identification                        | Passes IP test   |
| pH (4% w/v in water)                  | Max 10.0         |
| Arsenic (As) %                        | Max 0.0005       |
| Heavy metal                           | Max 0.006        |
| Chloride (Cl) %                       | Max 1.25         |
| Sulfate ( $\text{SO}_4$ )             | Max 1.2          |
| Neutralising capacity                 | Passes IP test   |
| Microbial contamination               | Free from E.Coli |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Aluminium nitrate nonahydrate Laboratory Reagent

$\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$  MW=375.13

**Product code:** 301820500

**C.A.S. :** 7784-27-2

**500 gr**

**EINECS :** 236-751-8

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 98    |
| Chloride (Cl) %             | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01  |
| Sodium (Na) %               | Max 0.01  |
| Iron (Fe) %                 | Max 0.005 |
| Potassium (K) %             | Max 0.01  |



H272-H315-H319  
P210-P221-P302-P352-P305-P351-P338-P321-P501a

## Aluminium oxide G neutral

Laboratory Reagent

$\text{Al}_2\text{O}_3$  MW=101.96

**Product code:** 302990500

**C.A.S. :** 1344-28-1

**500 gr**

**EINECS :** 215-691-6

|                              |           |
|------------------------------|-----------|
| Content of $\text{CaSO}_4$ % | About 10  |
| Iron (Fe) %                  | Max 0.02  |
| Chloride (Cl) %              | Max 0.02  |
| pH of 10% suspension         | 6.5 - 7.5 |



**Aluminium sulfate octadecahydrate** Laboratory Reagent  
 $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$  MW=666.42

**Product code:** 306030500

**C.A.S. :** 7784-31-8

**500 gr**

|                                                        |           |
|--------------------------------------------------------|-----------|
| Assay [complexometric $\text{Al}_2(\text{SO}_4)_3$ ] % | 51 - 59   |
| pH (2% water)                                          | 2.5 - 4.0 |
| Chloride (Cl) %                                        | Max 0.005 |
| Heavy metals (as Pb) %                                 | Max 0.002 |
| Ammonium ( $\text{NH}_4$ ) %                           | Max 0.005 |
| Arsenic (As) %                                         | Max 0.001 |
| Calcium (Ca) %                                         | Max 0.02  |
| Iron (Fe) %                                            | Max 0.005 |
| Potassium (K) %                                        | Max 0.2   |
| Alkali and alkaline earth metals %                     | Max 0.4   |



H318  
P280-P305-P351-P338-P310

## Aluminon

Analytical Reagent  
 $\text{C}_{22}\text{H}_{23}\text{N}_3\text{O}_9$  MW=473.44

**Product code:** 501140025

**C.A.S. :** 569-58-4

**25 gr**

**EINECS :** 209-319-1

|                                  |             |
|----------------------------------|-------------|
| Molar absorptivity of Al complex | Min 11000.0 |
| Sulfated ash %                   | Max 0.2     |
| Insoluble matter %               | Max 0.1     |



H315-H319  
P280-P305-P351-P338-P302-P352-P321-P362-332-P313

## 4-Aminoantipyrine

Analytical Reagent  
 $\text{C}_{11}\text{H}_{13}\text{N}_3\text{O}$  MW =203.24

**Product code:** 302240025

**C.A.S. :** 83-07-8

**25 gr**

**EINECS :** 201-452-3

|                                      |           |
|--------------------------------------|-----------|
| Assay ( $\text{HClO}_4$ titration) % | Min 99    |
| Sulfated ash %                       | Max 0.1   |
| Loss on drying %                     | Max 0.5   |
| Melting point °C                     | 107 - 110 |



H302-H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## 2-Aminophenol

Laboratory Reagent  
 $\text{C}_6\text{H}_7\text{NO}$  MW =109.13

**Product code:** 516380100

**C.A.S. :** 95-55-6

**100 gr**

**EINECS :** 202-431-1

|                  |             |
|------------------|-------------|
| Assay %          | Min 99.0    |
| Melting range °C | 173.0-176.0 |



H341-H302-H332  
P280-P302-P352

## 3-Aminophenol

Laboratory Reagent  
 $\text{C}_6\text{H}_7\text{NO}$  MW =109.13

**Product code:** 301560500

**C.A.S. :** 591-27-5

**500 gr**

**EINECS :** 209-711-2

|                                      |               |
|--------------------------------------|---------------|
| Assay ( $\text{HClO}_4$ titration) % | Min 99.0      |
| Melting range °C                     | 120.0 - 124.0 |



H302-H332-H411-H401  
P273-P302-P352

## 4-Aminophenol

Laboratory Reagent  
 $\text{C}_6\text{H}_7\text{NO}$  MW =109.13

**Product code:** 301310250

**C.A.S. :** 123-30-8

**250 gr**

**EINECS :** 204-616-2

|                  |            |
|------------------|------------|
| Assay %          | Min 98     |
| Melting range °C | 185 - 189C |



H341-H400-H410-H302-H332  
P280-P273-P302-P352-P501

## Ammonium acetate

Analytical Reagent  
 $\text{CH}_3\text{COONH}_4$  MW=77.08

**Product code:** 300950500

**C.A.S. :** 631-61-8

**500 gr**

**EINECS :** 211-162-9

|                                           |            |
|-------------------------------------------|------------|
| Assay %                                   | Min 98     |
| Insoluble matter %                        | Max 0.005  |
| Reaction                                  | pH 6.7-7.3 |
| Phosphate ( $\text{PO}_4$ ) %             | Max 0.0005 |
| Chloride (Cl) %                           | Max 0.0005 |
| Nitrate ( $\text{NO}_3$ ) %               | Max 0.001  |
| Sulfate ( $\text{SO}_4$ ) %               | Max 0.001  |
| Iron (Fe) %                               | Max 0.0005 |
| Lead (Pb) %                               | Max 0.0005 |
| Residue on ignition (as $\text{SO}_4$ ) % | Max 0.01   |
| Reducing substance as $\text{KMnO}_4$ %   | Max 0.005  |
| Water %                                   | Max 2.0    |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Ammonium acetate

For Molecular Biology  
 $\text{CH}_3\text{COONH}_4$  MW=77.08

**Product code:** 301350500

**C.A.S. :** 631-61-8

**500 gr**

**EINECS :** 211-162-9

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Assay (T) %                           | Min 98                           |
| Heavy metals (as Pb) %                | Max 0.0002                       |
| pH (5%; $\text{H}_2\text{O}$ , 25 °C) | 6.5 - 7.3                        |
| DNases, RNases, Proteases             | Not detectable                   |
| Melting point °C                      | Approx. 114                      |
| Solubility (20 °C)                    | 1480g/l ( $\text{H}_2\text{O}$ ) |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Ammonium acetate

Laboratory Reagent  
 $\text{CH}_3\text{COONH}_4$  MW=77.08

**Product code:** 300980500

**C.A.S. :** 631-61-8

**500 gr**

**EINECS :** 211-162-9

|                             |           |
|-----------------------------|-----------|
| Assay (ex $\text{NH}_3$ ) % | Min 96    |
| Chloride (Cl) %             | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01  |
| Iron (Fe) %                 | Max 0.001 |
| Lead (Pb) %                 | Max 0.001 |



H315-H319-H335

P261-P305-P351-P338-P302-P352-P321-P405-P501

## Ammonium carbonate

Laboratory Reagent  
proportions of:  $\text{NH}_4(\text{HCO}_3, \text{NH}_4\text{CO}_3)$  MW=157.13

**Product code:** 300910500

**C.A.S. :** 506-87-6

**500 gr**

**EINECS :** 208-058-0

|                                           |            |
|-------------------------------------------|------------|
| Ammonia ( $\text{NH}_3$ ) %               | 30.0-34.0  |
| Chloride (Cl) %                           | Max 0.0035 |
| Phosphate ( $\text{PO}_4$ ) %             | Max 0.001  |
| Sulfate ( $\text{SO}_4$ ) %               | Max 0.005  |
| Iron (Fe) %                               | Max 0.001  |
| Residue on ignition (as $\text{SO}_4$ ) % | Max 0.1    |



H315-H319-H335

P261-P305-P351-P338-P302-P352-P321-P405-P501

## Ammonium bromide

Analytical Reagent  
 $\text{NH}_4\text{Br}$  MW=97.94

**Product code:** 300990500

**C.A.S. :** 12124-97-9

**500 gr**

**EINECS :** 235-183-8

|                              |            |
|------------------------------|------------|
| Assay (after drying) %       | Min 99.5   |
| Insoluble matter %           | Max 0.005  |
| pH (5%; water)               | 4.5-6.0    |
| Arsenic (As) %               | Max 0.0002 |
| Barium (Ba) %                | Max 0.002  |
| Calcium (Ca) %               | Max 0.01   |
| Copper (Cu) %                | Max 0.0003 |
| Magnesium (Mg) %             | Max 0.002  |
| Residue on ignition %        | Max 0.01   |
| Loss on drying at 100°C %    | Max 0.1    |
| Bromate ( $\text{BrO}_3$ ) % | Max 0.001  |
| Chloride (Cl) %              | Max 0.2    |
| Iodide (I) %                 | Max 0.025  |
| Sulfate ( $\text{SO}_4$ ) %  | Max 0.005  |
| Iron (Fe) %                  | Max 0.0005 |
| Heavy metals (as Pb) %       | Max 0.0005 |



H315-H319

P280-P305-P351-P338-P362-P321-P332-P313-P337-P313

## Ammonium chloride

Analytical Reagent  
 $\text{NH}_4\text{Cl}$  MW=53.49

**Product code:** 301030500

**C.A.S. :** 12125-02-9

**500 gr**

**EINECS :** 235-186-4

|                               |             |
|-------------------------------|-------------|
| Assay %                       | Min 99.5    |
| pH (5% solution)              | 4.5 - 5.5   |
| Insoluble matter %            | Max 0.005   |
| Non-volatile matter %         | Max 0.005   |
| Iodide (I) %                  | Max 0.001   |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.0002  |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.002   |
| Calcium (Ca) %                | Max 0.001   |
| Iron (Fe) %                   | Max 0.0002  |
| Heavy metals (as Pb) %        | Max 0.0005  |
| Potassium (K) %               | Max 0.005   |
| Sodium (Na) %                 | Max 0.005   |
| Magnesium (Mg) %              | Max 0.005   |
| Pyridine and homologues %     | Max 0.001   |
| Arsenic (As) %                | Max 0.00005 |



H315-H319

P280-P305-P351-P338-P362-P321-P332-P313-P337-P313

## Ammonium carbonate

Analytical Reagent  
Proportions of:  $\text{NH}_4(\text{HCO}_3, \text{NH}_4\text{CO}_3)$  MW=157.13

**Product code:** 301180500

**C.A.S. :** 506-87-6

**500 gr**

**EINECS :** 208-058-0

|                                        |            |
|----------------------------------------|------------|
| Assay (as $\text{NH}_3$ ) %            | Min 31     |
| Water insoluble matter %               | Max 0.005  |
| Chloride (Cl) %                        | Max 0.0005 |
| Sulfur compounds (as $\text{SO}_4$ ) % | Max 0.002  |
| Iron (Fe) %                            | Max 0.0005 |
| Heavy metals (as Pb) %                 | Max 0.0005 |
| Non volatile matter %                  | Max        |



H315-H319-H335

P261-P305-P351-P338-P302-P352-P321-P405-P501

## Ammonium chloride

Laboratory Reagent  
 $\text{NH}_4\text{Cl}$  MW=53.49

**Product code:** 301111000/5000

**C.A.S. :** 12125-02-9

**1 kg**

**5 kg**

**EINECS :** 235-186-4

|                                |            |
|--------------------------------|------------|
| Assay (by argentometry) %      | Min 99     |
| Sulfate ( $\text{SO}_4$ ) %    | Max 0.015  |
| Heavy metals (as Pb) %         | Max 0.001  |
| Arsenic (As) %                 | Max 0.0003 |
| Lead (Pb) %                    | Max 0.001  |
| Calcium (Ca) %                 | Max 0.02   |
| Iron (Fe) %                    | Max 0.002  |
| Copper (Cu) %                  | Max 0.0025 |
| Zinc (Zn) %                    | Max 0.0025 |
| Residue on ignition (800 °C) % | Max 0.1    |
| pH (5% solution)               | 4.5-5.5    |
| Loss on drying (105 °C) %      | Max 0.5    |



H315-H319

P280-P305-P351-P338-P362-P321-P332-P313-P337-P313

## Ammonium fluoride

Laboratory Reagent  
 $\text{NH}_4\text{F}$  MW=37.04

**Product code:** 300970500

**C.A.S. :** 12125-01-8

**500 gr**

**EINECS :** 235-185-9

|                                     |           |
|-------------------------------------|-----------|
| Assay %                             | Min 95    |
| Sulfate ( $\text{SO}_4$ ) %         | Max 0.02  |
| Chloride (Cl) %                     | Max 0.001 |
| Fluorosilicate ( $\text{SiF}_6$ ) % | Max 0.2   |
| Heavy metals (as Pb) %              | Max 0.002 |
| Iron (Fe) %                         | Max 0.002 |



H301-H311-H330  
P260-P301-P310-P320-P361-P405-P501

## Ammonium hydrogen carbonate

Analytical Reagent  
 $\text{NH}_4\text{HCO}_3$  MW=79.06

**Product code:** 301600500

**C.A.S. :** 1066-33-7

**500 gr**

**EINECS :** 213-911-5

|                               |             |
|-------------------------------|-------------|
| Assay %                       | Min 99.0    |
| Insoluble matter %            | Max 0.003   |
| Non-volatile matter %         | Max 0.005   |
| Chloride (Cl) %               | Max 0.0002  |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.001   |
| Silicate ( $\text{SiO}_2$ ) % | Max 0.005   |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.002   |
| Sulfide (S) %                 | Max 0.0002  |
| Arsenic (As) %                | Max 0.00004 |
| Calcium (Ca) %                | Max 0.002   |
| Copper (Cu) %                 | Max 0.0002  |
| Iron (Fe) %                   | Max 0.0001  |
| Lead (Pb) %                   | Max 0.0002  |
| Magnesium (Mg) %              | Max 0.002   |
| Potassium (K) %               | Max 0.002   |
| Sodium (Na) %                 | Max 0.005   |



H302  
P264-P270-P301-P312-P330-P501A

## Ammonium hydroxide ammonia 25%

Analytical Reagent  
 $\text{NH}_4\text{OH}$  MW=35.05

**Product code:** 301592500

**C.A.S. :** 1336-21-6

**2.5 L**

**EINECS :** 215-647-6

|                                             |              |
|---------------------------------------------|--------------|
| Assay %                                     | Min 24       |
| Residue on Evaporation %                    | Max 0.003    |
| Substances Reducing $\text{KMnO}_4$ (asO) % | Max 0.0008   |
| Chlorides (Cl) %                            | Max 0.0001   |
| Phosphates ( $\text{PO}_4$ ) %              | Max 0.0001   |
| Total Sulfur (as $\text{SO}_4$ ) %          | Max 0.0003   |
| Carbonates ( $\text{CO}_3$ ) %              | Max 0.002    |
| Heavy Metals (as Pb) %                      | Max 0.00005  |
| Calcium and magnesium (as Ca) %             | Max 0.0002   |
| Iron (Fe) %                                 | Max 0.000025 |



H314-H335-H410  
P280-P261-P301-P330-P305-P351-P338-P501

## Ammonium iron (III) citrate

Laboratory Reagent

**Product code:** 301370500

**C.A.S. :** 1185-57-5

**500 gr**

**EINECS :** 214-686-6

|                                                 |            |
|-------------------------------------------------|------------|
| Iron Content (Iodometric) %                     | 20.5-22.5  |
| Chloride (Cl) %                                 | Max 0.05   |
| Tartrate ( $\text{C}_4\text{H}_4\text{O}_6$ ) % | Max 0.5    |
| Sulfate ( $\text{SO}_4$ ) %                     | Max 0.2    |
| Arsenic (As) %                                  | Max 0.0004 |
| Lead (Pb) %                                     | Max 0.005  |

## Ammonium iron (II) sulfate hexahydrate

Analytical Reagent

$\text{FeH}_2\text{N}_2\text{O}_8\text{S}_2 \cdot 6\text{H}_2\text{O}$  MW=392.14

**Product code:** 301090500

**C.A.S. :** 7783-85-9

**500 gr**

**EINECS :** 233-382-4

|                                                     |            |
|-----------------------------------------------------|------------|
| Assay %                                             | 99 - 101.5 |
| Insoluble matter %                                  | Max 0.01   |
| Phosphate ( $\text{PO}_4$ ) %                       | Max 0.003  |
| Calcium (Ca) %                                      | Max 0.005  |
| Copper (Cu) %                                       | Max 0.003  |
| Ferric ion %                                        | Max 0.01   |
| Manganese (Mn) %                                    | Max 0.01   |
| Magnesium (Mg) %                                    | Max 0.002  |
| Potassium (K) %                                     | Max 0.002  |
| Sodium (Na) %                                       | Max 0.02   |
| Substances not precipitated by ammonium hydroxide % | Max 0.05   |
| Zinc (Zn) %                                         | Max 0.003  |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Ammonium iron (II) sulfate hexahydrate

Laboratory Reagent

$\text{FeH}_2\text{N}_2\text{O}_8\text{S}_2 \cdot 6\text{H}_2\text{O}$  MW=392.14

**Product code:** 304020500/1000

**C.A.S. :** 7783-85-9

**500 gr  
1 kg**

**EINECS :** 233-382-4

|                       |           |
|-----------------------|-----------|
| Assay (oxidimetric) % | Min 98.5  |
| Chloride (Cl) %       | Max 0.005 |
| Ferric ion (Fe) %     | Max 0.05  |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

**Finding US on the web**

[www.biochemopharma.fr](http://www.biochemopharma.fr)

## Ammonium iron (III) sulfate dodecahydrate

Analytical Reagent  
 $\text{NH}_4\text{FeS}_2\text{O}_8 \cdot 12\text{H}_2\text{O}$  MW=482.18

**Product code:** 301100500/1000

**C.A.S. :** 7783-83-7

**EINECS :** 233-382-4

500 gr  
1 kg

|                                                     |            |
|-----------------------------------------------------|------------|
| Assay %                                             | 98.5 - 102 |
| Insoluble matter %                                  | Max 0.01   |
| Chloride (Cl) %                                     | Max 0.001  |
| Copper (Cu) %                                       | Max 0.003  |
| Ferrous ion No reaction Nitrate ( $\text{NO}_3$ ) % | Max 0.01   |
| Substances not precipitable by $\text{NH}_3$ %      | Max 0.05   |
| Zinc (Zn) %                                         | Max 0.003  |



H315-H319  
P280-P305-P351-P338-P302-P352-P321-P362-P332-P313

## Ammonium metavanadate

Laboratory Reagent  
 $\text{NH}_4\text{VO}_3$  MW =116.98

**Product code:** 301860100

**C.A.S. :** 7803-55-6

**EINECS :** 232-216-3

100 gr

|                               |          |
|-------------------------------|----------|
| Assay %                       | Min 98   |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.05 |
| Chloride (Cl) %               | Max 0.01 |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.02 |



H300-H341-H315-H319-H335  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Ammonium molybdate tetrahydrate

Analytical Reagent  
 $\text{H}_{24}\text{Mo}_7\text{N}_6\text{O}_{24} \cdot 4\text{H}_2\text{O}$  MW =1235.90

**Product code:** 304050100

**C.A.S. :** 12054-85-2

**EINECS :** 234-722-4

100 gr

|                                                  |             |
|--------------------------------------------------|-------------|
| Assay %                                          | Min 99.0    |
| Assay (as $\text{MoO}_3$ ) %                     | 81.0 – 83.0 |
| Insoluble matter %                               | Max 0.005   |
| Chloride (Cl) %                                  | Max 0.002   |
| Arsenate phosphate, silicate ( $\text{PO}_4$ ) % | Max 0.001   |
| Nitrate ( $\text{NO}_3$ ) %                      | Max 0.003   |
| Sulfate ( $\text{SO}_4$ ) %                      | Max 0.02    |
| Phosphate ( $\text{PO}_4$ ) %                    | Max 0.0005  |
| Heavy metals (as Pb) %                           | Max 0.001   |
| Magnesium (Mg) %                                 | Max 0.005   |
| Sodium (Na) %                                    | Max 0.01    |
| Potassium (K) %                                  | Max 0.01    |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501

## Ammonium iron (III) sulfate dodecahydrate

Laboratory Reagent  
 $\text{NH}_4\text{FeS}_2\text{O}_8 \cdot 12\text{H}_2\text{O}$  MW=482.18

**Product code:** 300920500

**C.A.S. :** 7783-83-7

**EINECS :** 233-382-4

500 gr

|                                                                    |           |
|--------------------------------------------------------------------|-----------|
| Assay (Iodometry) %                                                | 98 - 101  |
| Chloride (Cl) %                                                    | Max 0.002 |
| Zinc (Zn) %                                                        | Max 0.005 |
| Lead (Pb) %                                                        | Max 0.002 |
| Iron II Fe(II) %                                                   | Max 0.002 |
| Copper (Cu) %                                                      | Max 0.002 |
| Substances not precipitable by $\text{NH}_3$ (as $\text{SO}_4$ ) % | Max 0.1   |



H315-H319  
P280-P305-P351-P338-P302-P352-P321-P362-P332-P313

## Ammonium molybdate tetrahydrate

Laboratory Reagent  
 $\text{H}_{24}\text{Mo}_7\text{N}_6\text{O}_{24} \cdot 4\text{H}_2\text{O}$  MW =1235.90

**Product code:** 301340100

**C.A.S. :** 12054-85-2

**EINECS :** 234-722-4

100 gr

|                                                     |           |
|-----------------------------------------------------|-----------|
| Assay %                                             | Min 98    |
| Sulfate ( $\text{SO}_4$ ) %                         | Max 0.02  |
| Chloride (Cl) %                                     | Max 0.002 |
| Phosphate, arsenate, silicate (as $\text{PO}_4$ ) % | Max 0.002 |
| Lead (Pb) %                                         | Max 0.002 |
| Iron (Fe) %                                         | Max 0.005 |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501

## Ammonium metavanadate

Analytical Reagent  
 $\text{NH}_4\text{VO}_3$  MW =116.98

**Product code:** 301390100

**C.A.S. :** 7803-55-6

**EINECS :** 232-216-3

100 gr

|                                              |           |
|----------------------------------------------|-----------|
| Assay %                                      | Min 99.0  |
| Insoluble matter in $\text{NH}_4\text{OH}$ % | Max 0.01  |
| Chloride (Cl) %                              | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) %                  | Max 0.01  |
| Phosphate ( $\text{PO}_4$ ) %                | Max 0.005 |
| Iron (Fe) %                                  | Max 0.002 |
| carbonate ( $\text{CO}_3$ ) %                | Max 0.3   |
| Copper (Cu) %                                | Max 0.005 |
| Nickel (Ni) %                                | Max 0.002 |



H300-H341-H315-H319-H335  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Ammonium oxalate monohydrate Analytical Reagent

$C_2H_8N_2O_4 \cdot H_2O$  MW=142.11

**Product code:** 301150500

**C.A.S. :** 6009-70-7

**500 gr**

**EINECS :** 238-135-4

|                        |            |
|------------------------|------------|
| Assay %                | 99 - 101   |
| Insoluble matter %     | Max 0.005  |
| Chloride (Cl) %        | Max 0.002  |
| Sulfate ( $SO_4$ ) %   | Max 0.002  |
| Iron (Fe) %            | Max 0.0002 |
| Heavy metals (as Pb) % | Max 0.0005 |
| Residue on ignition %  | Max 0.02   |



H302-H312  
P280-P301-P312-P312-P352-P312-P322-P501

## Ammonium oxalate monohydrate Laboratory Reagent

$C_2H_8N_2O_4 \cdot H_2O$  MW=142.11

**Product code:** 301780500

**C.A.S. :** 6009-70-7

**500 gr**

**EINECS :** 238-135-4

|                      |           |
|----------------------|-----------|
| Assay %              | Min 99    |
| Chloride (Cl) %      | Max 0.01  |
| Iron (Fe) %          | Max 0.002 |
| Sulfated ash %       | Max 0.1   |
| Sulfate ( $SO_4$ ) % | Max 0.02  |



H302-H312  
P280-P301-P312-P312-P352-P312-P322-P501

## Ammonium persulfate Analytical Reagent

$(NH_4)_2S_2O_8$  MW =228.20

**Product code:** 301160500

**C.A.S. :** 7727-54-0

**500 gr**

**EINECS :** 231-786-5

|                                    |                 |
|------------------------------------|-----------------|
| Assay %                            | Min 98.0        |
| Water insoluble matter %           | Max 0.005       |
| Titrate free Acid                  | Max 0.044 meq/g |
| Chloride, Chlorate %               | Max 0.001       |
| Iron (Fe) %                        | Max 0.001       |
| Heavy metal (as Pb) %              | Max 0.005       |
| Manganese (Mn) %                   | Max 0.00005     |
| Residue on ignition (as $SO_4$ ) % | Max 0.05        |



H272-H334-H302-H335-H315-H319-H317  
P210-P221-P285-P305-P351-P338-P405-P501

## Ammonium persulfate

For Molecular Biology  
 $(NH_4)_2S_2O_8$  MW =228.20

**Product code:** 302350100

**C.A.S. :** 7727-54-0

**100 gr**

**EINECS :** 231-786-5

|                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| Assay %                                             | Min 98                              |
| Dnases / RNases / Proteases Not Detected Solubility | (20 °C in water) 582 g/l ( $H_2O$ ) |
| Free acid %                                         | Max 0.1                             |
| Melting point °C                                    | Approx. 120                         |
| pH (5%; $H_2O$ ; 20 °C)                             | 3 - 4                               |
| Residue on ignition %                               | Max 0.05                            |
| Chlorate %                                          | Max 0.001                           |
| Chloride (Cl) %                                     | Max 0.001                           |
| Iron (Fe) %                                         | Max 0.001                           |
| Manganese (Mn) %                                    | Max 0.00005                         |
| Lead (Pb) %                                         | Max 0.005                           |



H272-H334-H302-H335-H315-H319-H317  
P210-P221-P285-P305-P351-P338-P405-P501

## Ammonium sulfate

Analytical Reagent  
 $(NH_4)_2SO_4$  MW =132.13

**Product code:** 301190500

**C.A.S. :** 7783-20-2

**500 gr**

**EINECS :** 231-984-1

|                                           |             |
|-------------------------------------------|-------------|
| Assay (acidimetric on dried substances) % | 99.0-100.5  |
| Insoluble matter %                        | Max 0.001   |
| Loss on drying at 100 °C %                | Max 0.1     |
| pH (5% solution 20 °C)                    | 5.0-6.0     |
| Chloride (Cl) %                           | Max 0.0003  |
| Arsenic (As) %                            | Max 0.00002 |
| Calcium (Ca) %                            | Max 0.001   |
| Copper (Cu) %                             | Max 0.0002  |
| Iron (Fe) %                               | Max 0.0002  |
| Lead (Pb) %                               | Max 0.0002  |
| Nitrate ( $NO_3$ ) %                      | Max 0.001   |
| Phosphate ( $PO_4$ ) %                    | Max 0.0005  |
| Magnesium (Mg) %                          | Max 0.0005  |
| Cadmium (Cd) %                            | Max 0.0001  |
| Zinc (Zn) %                               | Max 0.0001  |
| Residue on ignition (as $SO_4$ ) %        | Max 0.005   |

## Ammonium sulfate

Laboratory Reagent  
 $(NH_4)_2SO_4$  MW =132.13

**Product code:** 300940500/5000

**C.A.S. :** 7783-20-2

**500 gr**

**EINECS :** 231-984-1

|                                          |            |
|------------------------------------------|------------|
| Assay (acidimetric on dried substance) % | Min 98.5   |
| pH (5% solution 20 °C)                   | 4.5-6.0    |
| Chloride (Cl) %                          | Max 0.002  |
| Nitrate ( $NO_3$ ) %                     | Max 0.002  |
| Heavy metals (as Pb) %                   | Max 0.001  |
| Iron (Fe) %                              | Max 0.001  |
| Arsenic (As) %                           | Max 0.0005 |
| Loss on drying (105 °C) %                | Max 1.0    |
| Residue on ignition (as $SO_4$ ) %       | Max 0.05   |



**Ammonium thiocyanate 0.1 M (0.1N)** Standardized solution  
traceable to NIST  
 $\text{NH}_4\text{SCN}$  MW = 76.12

**Product code:** BVS02001

**C.A.S. :** 1762-95-4

**1 L**

**EINECS :** 217-175-6



H302-H312-H332-H412-EUH032  
P261-P280-P302-P352-P304-P322-P501

**Ammonium thiocyanate 1 M (1N)** Standardized solution  
traceable to NIST  
 $\text{NH}_4\text{SCN}$  MW = 76.12

**Product code:** BVS02010

**C.A.S. :** 1762-95-4

**1 L**

**EINECS :** 217-175-6



H302-H312-H332-H412-EUH032  
P261-P280-P302-P352-P304-P322-P501

**Ammonium thiocyanate** Analytical Reagent  
 $\text{NH}_4\text{SCN}$  MW = 76.12

**Product code:** 301850500

**C.A.S. :** 1762-95-4

**500 gr**

**EINECS :** 217-175-6

|                                           |            |
|-------------------------------------------|------------|
| Assay (argentometric) %                   | Min 99     |
| Sulfide (S) %                             | Max 0.001  |
| Lead (Pb) %                               | Max 0.0004 |
| Residue on ignition (as $\text{SO}_4$ ) % | Max 0.025  |
| Insoluble matter %                        | Max 0.005  |
| pH (5% solution in water)                 | 4.8-5.8    |
| Chloride (Cl) %                           | Max 0.005  |
| Sulfate ( $\text{SO}_4$ ) %               | Max 0.0025 |
| Copper (Cu) %                             | Max 0.0004 |
| Iron (Fe) %                               | Max 0.0005 |
| Iodine consuming substances %             | Max 0.02   |



H302-H312-H332-H412-EUH032  
P261-P280-P302-P352-P304-P322-P501

**Ammonium thiocyanate** Laboratory Reagent  
 $\text{NH}_4\text{SCN}$  MW = 76.12

**Product code:** 313230500

**C.A.S. :** 1762-95-4

**500 gr**

**EINECS :** 217-175-6

|                                           |            |
|-------------------------------------------|------------|
| Assay (argentometric) %                   | Min 98.5   |
| Iron (Fe) %                               | Max 0.0005 |
| Sulfide (S) %                             | Max 0.002  |
| Residue on ignition (as $\text{SO}_4$ ) % | Max 0.05   |
| Chloride (Cl) %                           | Max 0.01   |
| Sulfate ( $\text{SO}_4$ ) %               | Max 0.02   |
| Heavy metals (as Pb) %                    | Max 0.002  |



H302-H312-H332-H412-EUH032  
P261-P280-P302-P352-P304-P322-P501

**Anaerobic agar (Brewer)**

For Microbiology

**Product code:** DM2400500

**500 gr**

|                                 |                                                             |
|---------------------------------|-------------------------------------------------------------|
| Proteose peptone                | 10.000 G/L                                                  |
| Casein enzymic hydrolysate      | 5.000 G/L                                                   |
| Yeast extract                   | 5.000 G/L                                                   |
| Dextrose                        | 10.000 G/L                                                  |
| Sodium chloride                 | 5.000 G/L                                                   |
| Sodium thioglycollate           | 2.000 G/L                                                   |
| Sodium formaldehyde sulfoxylate | 1.000 G/L                                                   |
| Resazurin                       | 0.002 G/L                                                   |
| Agar                            | 15.000 G/L                                                  |
| Final pH (at 25°C)              | 7.2 ± 0.2 G/L                                               |
| pH range                        | 7.00 - 7.40                                                 |
| Reaction                        | reaction of 3.5% w/v aqueous solution at 25°C pH 7.2 ± 7.40 |

**Anisaldehyde**

Laboratory Reagent

$\text{C}_8\text{H}_8\text{O}_2$  MW = 136.15

**Product code:** 201330250

**C.A.S. :** 123-11-5

**250 ml**

**EINECS :** 204-602-6

Assay %

Min 98



H302  
P280F

**o-Anisidine**

For Synthesis

$\text{C}_7\text{H}_9\text{NO}$  MW = 123.16

**Product code:** 201230500

**C.A.S. :** 90-04-0

**500 ml**

**EINECS :** 201-963-1

Assay %

Min 98

Density

1.091-1.093



H301-H311-H331-H350-H341  
P201-P309-P310

**p-Anisidine**

For Synthesis

$\text{C}_7\text{H}_9\text{NO}$  MW = 123.16

**Product code:** 201240250

**C.A.S. :** 104-94-9

**250 ml**

**EINECS :** 203-254-2

Assay %

Min 98

Melting point

56 59°C



H300-H310-H330-H373-H400  
P260-P301-P310-P304-P340-P320-P330-P361-P405-P501A



## Anisole

For Synthesis  
 $C_7H_8O$  MW =108.14

**Product code:** 201130500

**C.A.S. :** 100-66-3

**500 ml**

**EINECS :** 202-876-1

Assay % Min 99.0  
Density 0.992-0.994  
Boiling Point °C 156



H226-H332-H315-H335-H303  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Anthracene

Laboratory Reagent  
 $C_{14}H_{10}$  MW =178.23

**Product code:** 201220100

**C.A.S. :** 120-12-7

**100 gr**

**EINECS :** 204-371-1

Assay % Min 96  
Melting range °C 213 - 216



H410  
P273

## Anthraquinone

For Synthesis  
 $C_{14}H_8O_2$  MW =208.22

**Product code:** 301420500

**C.A.S. :** 84-65-1

**500 gr**

**EINECS :** 201-549-0

Assay (ex C, H) % Min 98  
Melting range °C 283 - 288  
Moisture % Max 0.1  
Sulfated ash % Max 0.1



H351-H317  
P261-P280-P281-P363-P405-P501A

## Anthrone

Analytical Reagent  
 $C_{14}H_{10}O$  MW =194.23

**Product code:** 301430025

**C.A.S. :** 90-44-8

**25 gr**

**EINECS :** 201-994-0

Assay % Min 99  
Melting range °C 152 - 156  
Iron (Fe) % Max 0.001  
Loss on drying (at 105 °C) % Max 0.5



H315-H319-H335  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Antibiotic assay medium N° 1 (seed agar)

For Microbiology

**Product code:** DM2010500

**500 gr**

Peptic digest of animal tissue (Peptone) 6000 G/L  
Casein enzymic hydrolysate 4.000 G/L  
Yeast extract 3.000 G/L  
Beef extract 1500 G/L  
Dextrose 1.000 G/L  
Agar 15.000 G/L  
Final pH (at 25°C) 6.6 ± 0.2

## Antibiotic assay medium N° 2 (base agar)

For Microbiology

**Product code:** DM2020500

**500 gr**

Peptic digest of animal tissue (Peptone) 6.000 G/L  
Beef extract 1.500 G/L  
Yeast extract 3.000 G/L  
Agar 15.000  
Final pH (at 25°C) 6.6 ± 0.2

## Antibiotic assay medium N° 3

For Microbiology

**Product code:** DM2030500

**500 gr**

Peptic digest of animal tissue (Peptone) 5.00 G/L  
Beef extract 1.500 G/L  
Yeast extract 1.500 G/L  
Dextrose 1.000 G/L  
Sodium chloride 3.500 G/L  
Dipotassium phosphate 3.680 G/L  
Potassium dihydrogen phosphate 1.320 G/L  
Final pH (at 25°C) 7.0 ± 0.2

## Antibiotic assay medium N° 4 (yeast beef agar)

For Microbiology

**Product code:** DM2040500

**500 gr**

Peptic digest of animal tissue (peptone) 6.000 G/L  
Beef extract 1.500 G/L  
Yeast extract 3.000 G/L  
Dextrose 1.000 G/L  
Agar 15.000 G/L  
pH range 6.40 - 6.80  
Reaction reaction of 2.65% w/v aqueous solution at 25°C pH: 6.6 ± 0.2

## Antibiotic assay medium N° 5

For Microbiology

**Product code:** DM2050500

**500 gr**

Peptic digest of animal tissue (Peptone) 6.00 G/L  
Beef extract 1.500 G/L  
Yeast extract 3.00 G/L  
Agar 15.00 G/L  
Final pH (at 25°C) 7.9 ± 0.2

## Antibiotic assay medium N° 6 For Microbiology

**Product code:** DM2060500 **500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Casein enzymic hydrolysate     | 17.000 G/L                                                 |
| Papaic digest of soyabean meal | 3.000 G/L                                                  |
| Sodium chloride                | 5.000 G/L                                                  |
| Dextrose                       | 2.500 G/L                                                  |
| Dipotassium phosphate          | 2.500 G/L                                                  |
| Manganese sulfate              | 0.030 G/L                                                  |
| Final pH (at 25°C)             | 7.0 ± 0.2                                                  |
| pH range                       | 6.80 - 7.20                                                |
| Reaction                       | of 3.0% w/v aqueous solution solution at 25°C pH 7.0 ± 0.2 |

Antibiotic assay medium N° 12 For Microbiology  
(nystatin assay agar)**Product code:** DM2120500 **500 gr**

|                                          |            |
|------------------------------------------|------------|
| Peptic digest of animal tissue (Peptone) | 10.000 G/L |
| Sodium chloride                          | 10.000 G/L |
| Dextrose                                 | 10.000 G/L |
| Beef extract                             | 2.500 G/L  |
| Yeast extract                            | 5.000 G/L  |
| Agar                                     | 25.000 G/L |
| Final pH (at 25°C)                       | 6.1 ± 0.2  |

## Antibiotic assay medium N° 7 For Microbiology

**Product code:** DM2070500 **500 gr**

|                              |               |
|------------------------------|---------------|
| Beef extract                 | 1.500 G/L     |
| Yeast extract                | 3.000 G/L     |
| Pancreatic digest of gelatin | 6.000 G/L     |
| Agar                         | 15.000 G/L    |
| Final pH (at 25°C)           | 7.0 ± 0.2 G/L |

## Antimony (III) chloride

Analytical Reagent

SbCl<sub>3</sub> MW =228.12**Product code:** 301200250**C.A.S. :** 10025-91-9**250 gr****EINECS :** 233-047-2

|                                     |            |
|-------------------------------------|------------|
| Assay %                             | Min 99     |
| Substance insoluble in chloroform % | Max 0.02   |
| Substance insoluble in HCl %        | Max 0.005  |
| Sulfate (SO <sub>4</sub> ) %        | Max 0.005  |
| Arsenic (As) %                      | Max 0.0005 |
| Calcium (Ca) %                      | Max 0.005  |
| Lead (Pb) %                         | Max 0.003  |
| Iron (Fe) %                         | Max 0.002  |
| Copper (Cu) %                       | Max 0.0005 |
| Sodium (Na) %                       | Max 0.005  |
| Potassium (K) %                     | Max 0.01   |

H314-H411  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501

## Antibiotic assay medium N° 8 For Microbiology

**Product code:** DM2080500 **500 gr**

|                                          |           |
|------------------------------------------|-----------|
| Peptic digest of animal tissue (Peptone) | 6.00 G/L  |
| Yeast extract                            | 3.00 G/L  |
| Beef extract                             | 1.50 G/L  |
| Agar                                     | 15.00 G/L |
| Final pH (at 25°C)                       | 5.9 ± 0.2 |

## Antimony (III) oxide

Analytical Reagent

Sb<sub>2</sub>O<sub>3</sub> MW =291.54**Product code:** 302210100**C.A.S. :** 1309-64-4**100 gr****EINECS :** 215-175-0

|                               |           |
|-------------------------------|-----------|
| Assay %                       | Min 99.0  |
| Substance insoluble in HCl %  | Max 0.05  |
| Chloride (Cl) %               | Max 0.05  |
| Sulphate (SO <sub>4</sub> ) % | Max 0.01  |
| Arsenic (As) %                | Max 0.03  |
| Calcium (Ca) %                | Max 0.002 |
| Copper (Cu) %                 | Max 0.002 |
| Iron (Fe) %                   | Max 0.003 |
| Potassium (K) %               | Max 0.002 |
| Sodium (Na) %                 | Max 0.002 |
| Lead (Pb) %                   | Max 0.025 |

H351  
P210-P202-P281-P308-P313-P405-P501Antibiotic assay medium N° 9 For Microbiology  
(polymyxin base agar)**Product code:** DM2090500 **500 gr**

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| Casein enzymic hydrolysate     | 17.000 G/L                                                |
| Papaic digest of soyabean meal | 3.000 G/L                                                 |
| Sodium chloride                | 5.000 G/L                                                 |
| Dextrose                       | 2.500 G/L                                                 |
| Dipotassium phosphate          | 2.500 G/L                                                 |
| Agar                           | 20.000 G/L                                                |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                 |
| pH range                       | 7.00 - 7.40                                               |
| Reaction                       | of 5 % w/v aqueous solution solution at 25°C pH 7.2 ± 0.2 |

Antibiotic assay medium N° 10 For Microbiology  
(polymyxin seed agar)**Product code:** DM2100500 **500 gr**

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| Casein enzymic hydrolysate     | 17.000 G/L                                                                      |
| Papaic digest of soyabean meal | 3.000 G/L                                                                       |
| Sodium chloride                | 5.000 G/L                                                                       |
| Dextrose                       | 2.500 G/L                                                                       |
| Dipotassium phosphate          | 2.500 G/L                                                                       |
| Agar                           | 12.000 G/L                                                                      |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                                       |
| pH range                       | 7.00 - 7.40                                                                     |
| Reaction                       | of 4.2 % w/v aqueous solution containing 1% polysorbate 80 at 25°C pH 7.2 ± 0.2 |

## Antimony potassium tartrate trihydrate

Analytical Reagent  
 $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$  MW=667.87

**Product code:** 301260100

**C.A.S. :** 28300-74-5 **100 gr**

**EINECS :** 229-436-1

|                          |            |
|--------------------------|------------|
| Assay %                  | Min 99.5   |
| pH (5% solution)         | 4.0-4.2    |
| Water insoluble matter % | Max 0.005  |
| Arsenic (As) %           | Max 0.0006 |
| Calcium (Ca) %           | Max 0.005  |
| Copper (Cu) %            | Max 0.001  |
| Iron (Fe) %              | Max 0.002  |
| Lead (Pb) %              | Max 0.002  |



H301-H330-H373-400-H410  
P260-P301-P310-P304-P340-P320-P330-405-P501

## L(+)-Arabinose

For Biochemistry  
 $C_5H_{10}O_5$  MW =150.13

**Product code:** 301450010/0025

**C.A.S. :** 5328-37-0 **10 gr**

**EINECS :** 226-214-6 **25 gr**

|                                          |                |
|------------------------------------------|----------------|
| Assay %                                  | Min 99         |
| Loss in drying at 60 °C (in vacuo) %     | Max 0.5        |
| Arsenic (As)                             | Max 0.0005     |
| Iron (Fe) %                              | Max 0.0005     |
| Sulfated ash %                           | Max 0.1        |
| (d)20D (C=10 in H <sub>2</sub> O, 24hrs) | +102° to +104° |

## Arsenic (III) oxide

Analytical Reagent  
 $As_2O_3$  MW =197.84

**Product code:** 501240100/0500

**C.A.S. :** 1324-53-3 **100 gr**

**EINECS :** 215-481-4 **500 gr**

|                                          |           |
|------------------------------------------|-----------|
| Assay %                                  | Min 99    |
| Insoluble matter in NH <sub>4</sub> OH % | Max 0.01  |
| Residue on ignition %                    | Max 0.05  |
| Chloride (Cl) %                          | Max 0.005 |
| Sulfide (S) %                            | Max 0.001 |
| Antimony (Sb) %                          | Max 0.05  |
| Iron (Fe) %                              | Max 0.001 |
| Lead (Pb) %                              | Max 0.002 |



H350 H300 H314 H410  
P201-P281-P273-P301-P330-P304-P340-P309-P310-P405-P501

## L-Asparagine monohydrate

For Biochemistry  
 $C_4H_8N_2O_5 \cdot H_2O$  MW =150.13

**Product code:** 112040025/0100

**C.A.S. :** 5794-13-8 **25 gr**

**EINECS :** 200-735-9 **100 gr**

|                                                    |           |
|----------------------------------------------------|-----------|
| Assay %                                            | Min 99.0  |
| Heavy metals (as Pb) %                             | Max 0.001 |
| Ammonium (NH <sub>4</sub> ) %                      | Max 0.01  |
| Aspartic acid %                                    | Max 0.5   |
| Foreign amino acids %                              | Max 0.3   |
| Other ninhydrin positive substances (as glycine) % | Max 0.1   |
| Water %                                            | 11.5-12.5 |

## L-Aspartic acid

For Biochemistry  
 $NH_2C_4O_4$  MW =133.10

**Product code:** 101340100

**C.A.S. :** 56-84-8 **100 gr**

**EINECS :** 200-291-6

|                                         |              |
|-----------------------------------------|--------------|
| Assay %                                 | 98.5 - 101.5 |
| Specific rotation                       | +24° to +26° |
| Residue on ignition %                   | Max 0.1      |
| Chloride (Cl) %                         | Max 0.02     |
| Sulfate (SO <sub>4</sub> ) %            | Max 0.03     |
| Iron (Fe) %                             | Max 0.001    |
| Lead (Pb) %                             | Max 0.001    |
| Loss on drying (at 105 °C for 3 Hrs.) % | Max 0.5      |

## Atropine sulfate monohydrate

Analytical Reagent  
 $C_{34}H_{48}N_2O_{10} \cdot S \cdot H_2O$  MW =694.83

**Product code:** 101360005

**C.A.S. :** 5908-99-6 **5 gr**

**EINECS :** 200-104-8

|                       |           |
|-----------------------|-----------|
| Residue on ignition % | Max 0.05  |
| Melting point °C      | 189 - 192 |



H300-H330  
P260-P301-P310-P304-P340-P320-P330-P405-P501A

## Auramine

For Microscopy  
 $C_{17}H_{22}N_3Cl$  MW =303.83

**Product code:** 101280025/0100

**C.A.S. :** 2465-27-2 **25 gr**

**EINECS :** 219-567-2 **100 gr**

|                                                                      |              |
|----------------------------------------------------------------------|--------------|
| Absorption maxima                                                    | 429 - 433 nm |
| Absorptivity (A1% 1cm, Absorption maxima, pH 6.0 on dried substance) | Min 900      |
| Loss on drying (105 °C) %                                            | Max 10       |



H311-H351-H302  
P280-P281-P361-P302-P352-P405-P501

## Azur A

For Microscopy  
 $C_{14}H_{14}ClN_3S$  MW =291.80

**Product code:** 101410010

**C.A.S. :** 531-53-3 **10 gr**

**EINECS :** 208-510-7

|                                                      |              |
|------------------------------------------------------|--------------|
| Absorption maxima (0.003g/l in water)                | 625 - 634 nm |
| Absorptivity (A1%, 1cm in H <sub>2</sub> O at α max) | Min 1100     |
| Loss on drying (110 °C) %                            | Max 8        |

## Azur B

For Microscopy  
 $C_{15}H_{16}ClN_3S$  MW =305.83

**Product code:** 101420005

**C.A.S. :** 531-55-5 **5 gr**

**EINECS :** 208-511-2

|                                                                        |              |
|------------------------------------------------------------------------|--------------|
| Dye content %                                                          | Min 80       |
| Absorption maxima (Water)                                              | 645 - 650 nm |
| Absorptivity (A1%/1cm, H <sub>2</sub> O at λ max.; on dried substance) | Min 1600     |
| Loss on drying (at 110 °C) %                                           | Max 5        |



H341  
P281-P201-P202-P308-P313-P405-P501A

## Azur (II)

For Microscopy  
 $C_{16}H_{18}N_3S \cdot C_{15}H_{16}N_3S_2 \cdot Cl$  MW = 625.68

**Product code:** 101240010/0025

**C.A.S. :** 37247-10-2

**10 gr**

**25 gr**

Absorption maximum (H<sub>2</sub>O)

655 - 660 nm

Absoptivity (A1%1cm, in H<sub>2</sub>O at absorption max, on dried subs.)

Min 1800

Loss on drying (at 110°C) %

Max 12



H318

P280-P305-P351-P338

## Baird parker agar

For Microbiology

**Product code:** DM2130500

**500 gr**

Casein enzymic hydrolysate

10.000 G/L

Beef extract

5.000 G/L

Yeast extract

1.000 G/L

Glycine

12.000 G/L

Sodium pyruvate

10.000 G/L

Lithium chloride

5.000 G/L

Agar

20.000 G/L

Final pH (at 25°C)

7.0 ± 0.2

pH range

6.80 - 7.20

Reaction reaction of 6.3% w/v aqueous solution at 25°C pH 7.0 ± 0.2

## Balsam canada

For Synthesis

**Product code:** 101430100

**C.A.S. :** 8007-47-4

**100 gr**

**EINECS :** 232-362-2

Natural drying time

2-3 days

Refractive index (at 15 °C)

1.525-1.535

Oven drying time (at 60-80 °C°)

1 hour



H226

P210-P280-P240-P303-P361-P353-P403-P235-P501A

## Barbituric acid

Analytical Reagent

$C_4H_4N_2O_3$  MW = 128.09

**Product code:** 101440100

**C.A.S. :** 67-52-7

**100 gr**

**EINECS :** 200-658-0

Assay %

Min 99.5

Chloride (Cl) %

Max 0.004

Iron (Fe) %

Max 0.001

Loss on drying (105 °C) %

Max 0.1

Sulfated ash %

Max 0.1

Heavy metals (as Pb) %

Max 0.005

## Barium acetate

Analytical Reagent

$C_4H_6BaO_4$  MW = 255.42

**Product code:** 301500500

**C.A.S. :** 543-80-6

**500 gr**

**EINECS :** 208-849-0

Assay (Complexometric) %

99.0-102.0

Insoluble matter %

Max 0.01

pH (5% solution)

7.0 - 8.5

Chloride (Cl) %

Max 0.001

Substance oxidizables (as NO<sub>3</sub>) %

Max 0.005

Heavy metals (as Pb) %

Max 0.0005

Calcium (Ca) %

Max 0.05

Iron (Fe) %

Max 0.0005

Strontium (Sr) %

Max 0.2

Potassium (K) %

Max 0.003

Sodium (Na) %

Max 0.005

Substance not precipitated by sulfuric acid (as sulfates) %

Max 0.1



H302-H332

P261-P264-P304-P340-P301-P312-P312-P501A



## Barium carbonate

Analytical Reagent  
 $\text{BaCO}_3$  MW =197.34

**Product code:** 302010500/1000

**C.A.S. :** 513-77-9

**EINECS :** 208-167-3

500 gr  
1 kg

|                                                             |           |
|-------------------------------------------------------------|-----------|
| Assay (Acidimetric) %                                       | Min 98.5  |
| Chloride (Cl) %                                             | Max 0.005 |
| Sulfide (S) %                                               | Max 0.001 |
| Heavy metals (as Pb) %                                      | Max 0.002 |
| Iron (Fe) %                                                 | Max 0.005 |
| Calcium (Ca) %                                              | Max 0.05  |
| Strontium (Sr) %                                            | Max 0.8   |
| Hydroxide and alkali carbonate (as $\text{Ba(OH)}_2$ ) %    | Max 0.05  |
| Substances oxidizable (as $\text{NO}_3$ ) %                 | Max 0.05  |
| Substances not precipitated by sulfuric acid (as Sulfate) % | Max 0.5   |



H301  
P264-P270-P301-P310-P321-P405-P501

## Barium carbonate

Laboratory Reagent  
 $\text{BaCO}_3$  MW =197.34

**Product code:** 302060500

**C.A.S. :** 513-77-9

**EINECS :** 208-167-3

500 gr

|                                                             |           |
|-------------------------------------------------------------|-----------|
| Assay (Acidimetric) %                                       | Min 98.5  |
| Chloride (Cl) %                                             | Max 0.005 |
| Sulfide (S) %                                               | Max 0.001 |
| Heavy metals (as Pb) %                                      | Max 0.002 |
| Iron (Fe) %                                                 | Max 0.005 |
| Calcium (Ca) %                                              | Max 0.05  |
| Strontium (Sr) %                                            | Max 0.8   |
| Hydroxide and alkali carbonate (as $\text{Ba(OH)}_2$ ) %    | Max 0.05  |
| Substances oxidizable (as $\text{NO}_3$ ) %                 | Max 0.05  |
| Substances not precipitated by sulfuric acid (as Sulfate) % | Max 0.5   |



H301  
P264-P270-P301-P310-P321-P405-P501

## Barium chloride dihydrate

Analytical Reagent  
 $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$  MW =244.28

**Product code:** 302030500

**C.A.S. :** 10326-27-9

**EINECS :** 233-788-1

500 gr

|                          |            |
|--------------------------|------------|
| Assay %                  | Min 99.0   |
| Insoluble matter %       | Max 0.005  |
| Oxidizing substances %   | Max 0.005  |
| Loss on drying @ 105°C % | 14.0-16.0  |
| pH (25°C, 5%; water)     | 5.2-8.2    |
| Calcium (Ca) %           | Max 0.05   |
| Iron (Fe) %              | Max 0.0002 |
| Heavy metal (Pb) %       | Max 0.0005 |
| Potassium (K) %          | Max 0.0025 |
| Sodium (Na) %            | Max 0.005  |
| Strontium (Sr) %         | Max 0.1    |



H301-H332  
P261-P301-P310-P304-P340-P321-P405-P501

## Barium chloride dihydrate

Laboratory Reagent  
 $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$  MW =244.28

**Product code:** 302040500/5000

**C.A.S. :** 10326-27-9

**EINECS :** 233-788-1

500 gr  
5 kg

|                                                                  |           |
|------------------------------------------------------------------|-----------|
| Assay %                                                          | Min 99    |
| Heavy metals (as Pb) %                                           | Max 0.001 |
| Substances not precipitated by dil. sulfuric acid (as Sulfate) % | Max 0.1   |
| Iron (Fe) %                                                      | Max 0.001 |



H301-H332  
P261-P301-P310-P304-P340-P321-P405-P501

## Barium chromate

Analytical Reagent  
 $\text{BaCrO}_4$  MW =253.32

**Product code:** 301510100/0250

**C.A.S. :** 10294-40-3

**EINECS :** 233-660-5

100 gr  
250 gr

|                                          |           |
|------------------------------------------|-----------|
| Assay %                                  | Min 99    |
| Soluble chromates (as $\text{CrO}_3$ ) % | Max 0.05  |
| Insoluble in HCl %                       | Max 0.1   |
| Iron (Fe) %                              | Max 0.002 |
| Chloride (Cl) %                          | Max 0.01  |



H302-H332  
P261-P264-P304-P340-P301-P312-P501A

## Barium hydroxide octahydrate

Laboratory Reagent  
 $\text{Ba(OH)}_2 \cdot 8\text{H}_2\text{O}$  MW =315.47

**Product code:** 302100500

**C.A.S. :** 12230-71-6

**EINECS :** 241-234-5

500 gr

|                                                                            |           |
|----------------------------------------------------------------------------|-----------|
| Assay (by acidimetry) %                                                    | Min 97    |
| Substances insoluble in dil. HCl %                                         | Max 0.02  |
| Chloride (Cl) %                                                            | Max 0.05  |
| Iron (Fe) %                                                                | Max 0.003 |
| Strontium (Sr) %                                                           | Max 1.0   |
| Heavy metals (as Pb) %                                                     | Max 0.002 |
| Carbonates (as $\text{BaCO}_3$ ) %                                         | Max 2.0   |
| Sulfide (S) %                                                              | Max 0.005 |
| Substances not precipitated by dil. $\text{H}_2\text{SO}_4$ (as Sulfate) % | Max 0.2   |



H314-H332  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501



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## Barium nitrate

Analytical Reagent  
 $\text{Ba}(\text{NO}_3)_2$  MW =261.32

**Product code:** 302140500/1000

**C.A.S. :** 10022-31-8

**EINECS :** 233-020-5

**500 gr**  
**1 kg**

|                          |            |
|--------------------------|------------|
| Assay (Complexometric) % | Min 99     |
| Calcium (Ca) %           | Max 0.002  |
| Iron (Fe) %              | Max 0.0002 |
| Potassium (K) %          | Max 0.005  |
| pH (5% water)            | 5.0 - 8.0  |
| Heavy metals (as Pb) %   | Max 0.0005 |
| Sodium (Na) %            | Max 0.005  |
| Insoluble matter %       | Max 0.001  |
| Chloride (Cl) %          | Max 0.0005 |
| Strontium (Sr) %         | Max 0.05   |



H272-H302-H332  
P221-P210-P220-P261-P304-P340-P501A

## Barium nitrate

Laboratory Reagent  
 $\text{Ba}(\text{NO}_3)_2$  MW =261.32

**Product code:** 302160500

**C.A.S. :** 10022-31-8

**EINECS :** 233-020-5

**500 gr**

|                                                                            |           |
|----------------------------------------------------------------------------|-----------|
| Assay %                                                                    | Min 98.5  |
| Chloride (Cl) %                                                            | Max 0.005 |
| Substances not precipitated by dil. $\text{H}_2\text{SO}_4$ (as Sulfate) % | Max 0.2   |
| Iron (Fe) %                                                                | Max 0.002 |
| Heavy metals (as Pb) %                                                     | Max 0.002 |



H272-H302-H332  
P221-P210-P220-P261-P304-P340-P501A

## Barium sulfate precipitated

Laboratory Reagent  
 $\text{BaSO}_4$  MW =233.39

**Product code:** 302200500/2000

**C.A.S. :** 7727-43-7

**EINECS :** 231-784-4

**500 gr**  
**2 kg**

|                            |            |
|----------------------------|------------|
| Assay %                    | Min 97     |
| Soluble barium compounds % | Max 0.005  |
| Chloride (Cl) %            | Max 0.05   |
| Arsenic (As) %             | Max 0.0005 |
| Heavy metals (as Pb) %     | Max 0.001  |
| Loss on Ignition %         | Max 2      |

## Bentonite powder

Laboratory Reagent

**Product code:** 202040500

**C.A.S. :** 1302-78-9

**EINECS :** 215-108-5

**500 gr**

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Loss on drying (at 105 °C) %      | 5 - 12                              |
| pH (2% w/v suspension in water) % | 9-10.5                              |
| Arsenic (As) %                    | Max 0.0008                          |
| Sedimentation value               | Max 2 ml                            |
| Swelling power                    | Min 24 ml                           |
| Coarse particles                  | Max 0.1 gm remains on 200 no. Sieve |

## Benzaldehyde

Analytical Reagent  
 $\text{C}_6\text{H}_5\text{O}$  MW =106.12

**Product code:** 202050500/1000

**C.A.S. :** 100-52-7

**EINECS :** 202-860-4

**500 ml**  
**1L**

|                                                                |                    |
|----------------------------------------------------------------|--------------------|
| Assay %                                                        | Min 99             |
| Wt. per ml at 20 °C                                            | 1.044 - 1.046 g/ml |
| Refractive index                                               | 1.544 - 1.546      |
| Acidity ( $\text{C}_6\text{H}_5\text{COOH}$ ) %                | Max 0.3            |
| Sulfated ash %                                                 | Max 0.01           |
| Benzylidene dichloride ( $\text{C}_7\text{H}_6\text{Cl}_2$ ) % | Max 0.05           |
| Ionised chloride (Cl) %                                        | Max 0.0001         |



H302  
P262

## Benzene

Analytical Reagent  
 $\text{C}_6\text{H}_6$  MW =78.11

**Product code:** 201160500/1000

**C.A.S. :** 71-43-2

**EINECS :** 200-753-7

**500 ml**  
**1 L**

|                                                |                  |
|------------------------------------------------|------------------|
| Assay %                                        | Min 99.5         |
| Wt. per ml at 20 °C                            | 0.877-0.878 g    |
| Refractive index                               | 1.499 -1.502     |
| Alkalinity                                     | Max 0.0001 meq/g |
| Copper (Cu) %                                  | Max 0.00002      |
| Iron (Fe) %                                    | Max 0.00005      |
| Lead (Pb) %                                    | Max 0.00002      |
| Sulfur compound ( $\text{CS}_2$ ) %            | Max 0.0003       |
| Thiophene ( $\text{C}_4\text{H}_4\text{S}$ ) % | Max 0.001        |
| Freezing point °C                              | Min 5.2          |
| Water %                                        | Max 0.05         |
| Acidity                                        | Max 0.0001 meq/g |
| Non volatile matter %                          | Max 0.001        |



H225-H350-H372-H304-H315-H319  
P210-P301-P310-P303-P361-P353-P305-P351-P338-P405-P501

## Benzoic acid

For Synthesis  
 $\text{C}_7\text{H}_6\text{O}_2$  MW =122.12

**Product code:** 202190500

**C.A.S. :** 65-85-0

**EINECS :** 200-618-2

**500 gr**

|                                                      |               |
|------------------------------------------------------|---------------|
| Assay (by acidimetry) %                              | Min 99.5      |
| Melting Point °C                                     | 121.5 - 123.5 |
| Sulfate ( $\text{SO}_4$ ) %                          | Max 0.02      |
| Heavy metals (as Pb) %                               | Max 0.001     |
| Arsenic (As) %                                       | Max 0.0001    |
| Copper (Cu) %                                        | Max 0.0025    |
| Lead (Pb) %                                          | Max 0.0005    |
| Zinc (Zn) %                                          | Max 0.0025    |
| Halogenated compounds (chlorobenzoic acid) (as Cl) % | Max 0.01      |
| Water %                                              | Max 0.7       |
| Sulfated ash %                                       | Max 0.05      |



H302-H319-H335  
P280-P305-P351-P338

## Benzoin

Laboratory Reagent  
 $C_{14}H_{12}O_2$  MW =212.25

**Product code:** 102160100/0250

**C.A.S. :** 119-53-9

**EINECS :** 204-331-3

**100 gr**  
**250 gr**

Assay %  
Melting point °C

Min 99  
132 - 135

## Benzoyl chloride

Analytical Reagent  
 $C_7H_5ClO$  MW =140.57

**Product code:** 102140500

**C.A.S. :** 98-88-4

**EINECS :** 202-710-8

**500 ml**

Assay %  
Phosphorous compounds (P) %  
Heavy metals (as Pb) %  
Iron (Fe) %

Min 99  
Max 0.002  
Max 0.001  
Max 0.001



H311-H314-H302-H332-H317  
P280-P303-P361-P353-P305-P351-P338-P310

## Benzyl alcohol

Analytical Reagent  
 $C_7H_8O$  MW =108.14

**Product code:** 202240250/0500

**C.A.S. :** 100-51-6

**EINECS :** 202-859-9

**250 ml**  
**500 ml**

Assay %  
Wt. per ml at 20 °C  
Refractive index  
Acidity %  
Non volatile matter %  
Free acid (as  $C_7H_6O_2$ ) %  
Chlorine and organic bound chlorine (as Cl) %  
Heavy metals (as Pb) %  
Iron (Fe) %  
Benzaldehyde %  
Peroxide value %  
Sulfated ash %  
Water %

Min 99  
1.043 - 1.048 g  
1.538 - 1.541  
Max 0.5 ml N  
Max 0.05  
Max 0.01  
Max 0.001  
Max 0.0001  
Max 0.0001  
Max 0.1  
Max 5  
Max 0.005  
Max 0.1



H302-H332  
P280-P305-P351-P330

## Bile salt

For Microbiology

**Product code:** DM1010500

**500 gr**

Description  
Solubility  
Bile acid %  
pH (2% solution)  
Sulfated ash %  
Loss on drying %

yellowish - brown powder  
soluble in water and alcohol  
Not less than 65  
6 - 8  
Max 13 - 17  
Max 5

## Bio peptone

For Microbiology

**Product code:** DM1130500

**500 gr**

pH (1% w/v aqueous solution) 25°C

5.5 - 7.2

Typical cultural response after 18 - 48 hours at 35 °C

|            |      |
|------------|------|
| E. Coli    | good |
| Klebsiella | good |
| Proteus    | good |
| S. aureus  | good |

Biochemical test

|                           |      |
|---------------------------|------|
| MR                        | + ve |
| VP                        | ± ve |
| Nitrate reduction         | - ve |
| Carbohydrate fermentation | - ve |

## D-Biotin

For Biochemistry

$C_{10}H_{16}N_2O_3S$  MW =244.31

**Product code:** 202270001

**C.A.S. :** 58-85-5

**EINECS :** 200-399-3

**1 gr**

Assay %  
Specific rotation

97.0 - 100.5  
+89° to +93°

## Biphenyl

For Synthesis

$C_{12}H_{10}$  MW =154.21

**Product code:** 204080100/0250

**C.A.S. :** 92-52-4

**EINECS :** 202-163-5

**100 gr**  
**250 gr**

Assay %  
Melting point °C

Min 99  
68 - 70



H400-H410-H319-H335-H303  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## 2,2'-Bipyridyl

Analytical Reagent

$C_{10}H_8N_2$  MW =156.19

**Product code:** 202230005

**C.A.S. :** 366-18-7

**EINECS :** 206-674-4

**5 gr**

Assay %  
Melting point °C  
Sensitivity to Iron (Fe)  
Sulfated ash %

Min 99.5  
69 - 72  
Min 1:10,000,000  
Max 0.05



H301-H311  
P301-P310-P302-P352-P321-P361-P405-P501



## Bismuth nitrate pentahydrate

Analytical Reagent

$\text{Bi}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}$  MW =485.07

**Product code:** 302090100

**C.A.S. :** 10035-06-0

**100 gr**

**EINECS :** 233-791-8

|                                                                   |            |
|-------------------------------------------------------------------|------------|
| Assay (ex Bi) %                                                   | Min 98     |
| Chloride (Cl) %                                                   | Max 0.005  |
| Sulfate ( $\text{SO}_4$ ) %                                       | Max 0.002  |
| Ammonium ( $\text{NH}_4$ ) %                                      | Max 0.003  |
| Arsenic (As) %                                                    | Max 0.0005 |
| Lead (Pb) %                                                       | Max 0.005  |
| Calcium (Ca) %                                                    | Max 0.005  |
| Iron (Fe) %                                                       | Max 0.002  |
| Copper (Cu) %                                                     | Max 0.002  |
| Silver (Ag) %                                                     | Max 0.001  |
| Zinc (Zn) %                                                       | Max 0.001  |
| Substance not precipitated by $\text{H}_2\text{S}$ (as Sulfate) % | Max 0.5    |



H272-H315-H319-H335  
P221-P210-P220-P305-P351-P338-P405-P501A

## Bismuth oxide

Laboratory Reagent

$\text{Bi}_2\text{O}_3$  MW =465.96

**Product code:** 302170100

**C.A.S. :** 1304-76-3

**100 gr**

**EINECS :** 215-134-7

|                          |            |
|--------------------------|------------|
| Assay %                  | Min 99.5   |
| pH (5% solution)         | 4.0-4.2    |
| Water insoluble matter % | Max 0.005  |
| Arsenic (As) %           | Max 0.0006 |
| Calcium (Ca) %           | Max 0.005  |
| Copper (Cu) %            | Max 0.001  |
| Iron (Fe) %              | Max 0.002  |
| Lead (Pb) %              | Max 0.002  |

## Bismuth oxychloride

Laboratory Reagent

$\text{BiClO}$  MW=260.43

**Product code:** 302390100

**C.A.S. :** 7787-59-9

**100 gr**

**EINECS :** 232-122-7

|         |        |
|---------|--------|
| Assay % | Min 98 |
|---------|--------|



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Biuret

Analytical Reagent

$\text{C}_2\text{H}_5\text{N}_3\text{O}_2$  MW =103.08

**Product code:** 302000025/0050

**C.A.S. :** 108-19-0

**25 gr**

**50 gr**

**EINECS :** 203-559-0

|                  |           |
|------------------|-----------|
| Assay (ex N) %   | Min 96    |
| Water %          | About 2.0 |
| Melting range °C | 190 - 194 |



H315-H319-H335  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Blood agar base No.2 w/1,2 % agar For Microbiology

**Product code:** DM2420500

**500 gr**

|                    |            |
|--------------------|------------|
| Proteose peptone   | 15.000 G/L |
| Liver extract      | 2.50 G/L   |
| Yeast extract      | 5.000 G/L  |
| Sodium chloride    | 5.000 G/L  |
| Agar               | 12.000 G/L |
| Final pH (at 25°C) | 7.4 ± 0.2  |

## Boric acid

Analytical Reagent

$\text{H}_3\text{BO}_3$  MW =61.83

**Product code:** 102030500

**C.A.S. :** 10043-35-3

**500 gr**

**EINECS :** 233-139-2

|                               |            |
|-------------------------------|------------|
| Assay %                       | Min 99.5   |
| Insoluble in methanol %       | Max 0.005  |
| Non volatile in methanol %    | Max 0.05   |
| Chloride (Cl) %               | Max 0.001  |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.001  |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.01   |
| Calcium (Ca) %                | Max 0.005  |
| Iron (Fe) %                   | Max 0.001  |
| Heavy metals (as Pb) %        | Max 0.001  |
| Arsenic (As) %                | Max 0.0001 |



H360FD  
P201-P308-P313

## Boric acid

Laboratory Reagent

$\text{H}_3\text{BO}_3$  MW =61.83

**Product code:** 101980500

**C.A.S. :** 10043-35-3

**500 gr**

**EINECS :** 233-139-2

|                                           |              |
|-------------------------------------------|--------------|
| Assay (by acidimetry) %                   | 99.5 - 100.5 |
| pH (3.3%, water)                          | 3.8 - 4.8    |
| Sulfate ( $\text{SO}_4$ ) %               | Max 0.04     |
| Heavy metals (as Pb) %                    | Max 0.0015   |
| Arsenic (As) %                            | Max 0.001    |
| Loss on drying (5 hrs. over silica gel) % | Max 0.5      |



H360FD  
P201-P308-P313

## Boric acid crystal

Laboratory Reagent

$\text{H}_3\text{BO}_3$  MW =61.83

**Product code:** 101990500

**C.A.S. :** 10043-35-3

**500 gr**

**EINECS :** 233-139-2

|                                     |            |
|-------------------------------------|------------|
| Assay (by acidimetry) %             | Min 99.5   |
| pH (3.3%, water)                    | 3.8 - 4.8  |
| Sulfate ( $\text{SO}_4$ ) %         | Max 0.04   |
| Heavy metals (as Pb) %              | Max 0.0015 |
| Arsenic (As) %                      | Max 0.0008 |
| Sodium (Na) %                       | Max 0.002  |
| Loss on drying (5h over silica gel) | Max 0.05   |



H360FD  
P201-P308-P313

## Brilliant green agar w/1,2 % agar For Microbiology

|                                |               |
|--------------------------------|---------------|
| <b>Product code:</b> DM2140500 | <b>500 gr</b> |
| Protease peptone               | 15.000 G/L    |
| Yeast extract                  | 3.000 G/L     |
| Lactose                        | 10.000 G/L    |
| Sucrose                        | 10.000 G/L    |
| Sodium chloride                | 5.000 G/L     |
| Phenol red                     | 0.080 G/L     |
| Brilliant green                | 0.0125 G/L    |
| Agar                           | 12.000 G/L    |
| Final pH (at 25°C)             | 6.9 ± 0.2     |

## Brilliant cresyl blue

Laboratory Reagent

$C_{17}H_{21}ClN_4O$  MW = 332.84

**Product code:** 403260005 **5 gr**

|                                                                  |              |
|------------------------------------------------------------------|--------------|
| Absorption maxima                                                | 623 - 628 nm |
| Specific Absorptivity A 1%/1cm<br>(λ max; 0.005g/l; ethanol 50%) | Min 1200     |
| Loss on drying (110 °C) %                                        | Max 10       |
| Ratio P-15/P+15                                                  | 1.05 - 1.31  |

## Brilliant green

Laboratory Reagent

$C_{27}H_{34}N_2O_5S$  MW = 482.65

**Product code:** 316340025/0100 **25 gr**  
**C.A.S. :** 633-03-4 **100 gr**  
**EINECS :** 211-190-1

|                                 |              |
|---------------------------------|--------------|
| Dye content %                   | Min 95       |
| Absorption max.(in ethanol 50%) | 628 - 632 nm |



H302-H315-H319-H335  
P261-P302-P352-P305-P351-P338-P321-P405-P405-P501

## Bromobenzene

Analytical Reagent

$C_6H_5Br$  MW = 157.01

**Product code:** 402270250 **250 ml**  
**C.A.S. :** 108-86-1  
**EINECS :** 203-623-8

|                    |             |
|--------------------|-------------|
| Assay (by GC) %    | Min 99.5    |
| Wt.per ml at 20 °C | 1.49-1.50 g |
| Water (KF) %       | Max 0.1     |



H226-H315-H303-H401-H411  
P210-P280-P303-P361-P353-P362-P403-P235-P501A

## Bromocresol green indicator

Analytical Reagent

$C_{21}H_{16}Br_4O_5S$  MW = 698.04

**Product code:** 402070005/0025 **5 gr**  
**C.A.S. :** 76-60-8 **25 gr**  
**EINECS :** 200-972-8

|                                      |                |
|--------------------------------------|----------------|
| Dye content (By spectrophotometry) % | Min 95         |
| IR spectrum                          | Passes test    |
| pH 3.8-5.4                           | Yellow to blue |
| Appearance of solution               | Conforms       |
| Loss on drying (at 110°C) %          | Max 3          |
| Transition range (according to ACS)  | Passes test    |
| Sensitivity test                     | Passes test    |

## Bromocresol purple

Analytical Reagent

$C_{21}H_{16}Br_2O_5S$  MW = 540.24

**Product code:** 402160005/0025

**C.A.S. :** 115-40-2

**EINECS :** 204-087-8

pH transition 5.2 - 6.8  
Appearance of solution  
Loss on drying (at 110 °C) %

Yellow to purple  
Conforms  
Max1



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Bromoethane

Laboratory Reagent

$C_2H_5Br$  MW = 108.97

**Product code:** 402280250

**C.A.S. :** 74-96-4

**EINECS :** 200-825-8

Assay (GC) %  
Non volatile matter %  
Acidity %  
Free bromine %  
Wt.per ml at 20 °C  
Refractive index

Min 99  
Max 0.005  
Max 0.015  
Max 0.005  
1.456 - 1.462 g  
1.4235 - 1.4250



H225-H351-H302-H332  
P210-P241-P261-P303-P361-P353-P405-P501

## Bromoform 98%

Laboratory Reagent

$CHBr_3$  MW = 252.73

**Product code:** 402300250

**C.A.S. :** 75-25-2

**EINECS :** 200-854-6

Assay (GC) %  
Wt.per ml at 20 °C  
Refractive index  $n_D^{20}$

Min 98.0  
2.870 - 2.890g  
1.5960 - 1.5980



H331-H302-H315-H319-H351-H411  
P261-P280-P281-P305-P351-P338-P405-P501A

## Bromophenol blue

Analytical Reagent

$C_{19}H_{10}Br_4O_5S$  MW = 669.98

**Product code:** 402020025

**C.A.S. :** 115-39-9

**EINECS :** 204-086-2

pH 3.0 - 4.6  
Loss on drying (105°C) %  
transition range pH 3.0 - 4.5

Yellow to Blue  
Max 1.0  
Greenish yellow - blue violet



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## n-Bromosuccinimide

Laboratory Reagent  
 $C_4H_4BrNO_2$  MW =177.99

**Product code:** 402040100

**C.A.S. :** 128-08-5

**100 gr**

**EINECS :** 204-877-2

Assay (iodometric) %

Min 98

Melting point °C

175 - 180

Sulfated ash %

Max 0.1



H314-H400-H302-H312

P260-P301-P330-P331-P303-P361P353-P305-P351-P338-P405-P501a

## Bromothymol blue

Analytical Reagent  
 $C_{27}H_{26}Br_2O_5S$  MW =624.40

**Product code:** 402120025

**C.A.S. :** 76-59-5

**25 gr**

**EINECS :** 200-971-2

pH transition 6.0-7.6

Yellow to blue

Loss on drying (110 °C) %

Max 3.0

## Brucine

Analytical Reagent  
 $C_{23}H_{26}N_2O_4$  MW =394.47

**Product code:** 402050010

**C.A.S. :** 357-57-3

**10 gr**

**EINECS :** 206-614-7

Assay (HClO<sub>4</sub> titration, on anhydrous substance) %

Min 99

Melting range °C

175 - 180

Sulfated ash %

Max 0.1

Suitability as micro reagent of nitrate

Passes test



H300-H330-H412

P260-P301-P310-P304-P340-P320-P330-P405-P501A

## Buffer solution pH 4.0

Laboratory Reagent

**Product code:** 216091000

**1 L**

Buffer pH 4 at 20°C

Tolerance

+/- 0.01

Description :

Clear pink liquid

## Buffer solution pH 7.0

Laboratory Reagent

**Product code:** 216101000

**1 L**

Buffer pH 7 at 20°C

Tolerance

+/- 0.01

Description :

Clear yellow liquid

## Buffer solution pH 10.0

Laboratory Reagent

**Product code:** 216061000

**1 L**

Buffer pH 10 at 20°C

Tolerance

+/- 0.01

Description :

Clear blue liquid

## 1-Butanol

Analytical Reagent  
 $C_4H_{10}O$  MW =74.12

**Product code:** 202121000/2500

**C.A.S. :** 71-36-3

**1 L**

**2.5 L**

**EINECS :** 200-751-6

Assay (by GC) %

Min 99.0

Water (by KF) %

Max 0.1

Residue on Evaporation %

Max 0.001

Acidity (meq/g) (meq/g)

Max 0.0005

Aldehydes and ketones %

Max. 0.03



H318-H315-H226-H302-H335-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## 1-Butanol

For HPLC & Spectroscopy  
 $C_4H_{10}O$  MW =74.12

**Product code:** 201171000

**C.A.S. :** 71-36-3

**1 L**

**EINECS :** 200-751-6

Assay (GC) %

Min 99.7

Non volatile matter %

Max 0.001

Water (by KF) %

Max 0.1

Free acid (as  $C_4H_7COOH$ ) %

Max 0.002

Transmittance at 215 nm %

Min 10

Transmittance at 230 nm %

Min 65

Transmittance at 235 nm %

Min 80

Transmittance at 240 nm %

Min 85

Transmittance at 250 nm %

Min 92

Transmittance from 280 nm %

Min 98



H318-H315-H226-H302-H335-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## n-Butyl acetate

Analytical Reagent  
 $C_6H_{12}O_2$  MW =116.16

**Product code:** 202130500/1000

**C.A.S. :** 123-86-4

**500 ml**

**1 L**

**EINECS :** 204-658-1

Assay (GC) %

Min 99.5

Wt.per ml at 20 °C

0.880 - 0.882 g/ml

Refractive index

1.394 - 1.395

Water (H<sub>2</sub>O) %

Max 0.1

Acidity (CH<sub>3</sub>COOH) %

Max 0.005

Non volatile matter %

Max 0.001

Copper (Cu) %

Max 0.0001

Iron (Fe) %

Max 0.0001

Lead (Pb) %

Max 0.0001



H226-H336-EUHO66

P210-P261-P262

## n-Butyric acid

For Synthesis  
 $C_4H_8O_2$  MW =88.11

**Product code:** 102320500

**C.A.S. :** 107-92-6

**500 ml**

**EINECS :** 203-532-3

Assay %  
Density (d<sub>20</sub> °C/4 °C)  
Water %  
Refractive Index (n<sub>20</sub> °C/D) %

Min 99  
0.956 - 0.958  
Max 0.2  
1.3969



H314  
P260-P301-P330-P331-P303-P361-P353-P305-P351-P338-P405-P501

## Cadmium granular

Analytical Reagent  
Cd MW =112.41

**Product code:** 303390100

**C.A.S. :** 7440-43-9

**100 gr**

**EINECS :** 231-152-8

Assay %

Min 99.9



H228-H330-H350-H372-H341-H361-H400-H410-H302  
P210-P241-P260-P320-P405-P501

## Cadmium acetate dihydrate

Laboratory Reagent  
(CH<sub>3</sub>COO)<sub>2</sub>Cd.2H<sub>2</sub>O MW=266.52

**Product code:** 302800500

**C.A.S. :** 5743-04-4

**500 gr**

**EINECS :** 208-853-2

Assay (Complexometric) %  
Chloride (Cl) %  
Nitrate (NO<sub>3</sub>) %  
Sulfate (SO<sub>4</sub>) %  
Iron (Fe) %  
Potassium (K) %  
Sodium (Na) %  
Zinc (Zn) %

Min 98  
Max 0.005  
Max 0.005  
Max 0.01  
Max 0.002  
Max 0.01  
Max 0.01  
Max 0.02



H400-H410-H302-H312-H332  
P261-P280-P302-P352-P304-P340-P322-P501

## Cadmium nitrate tetrahydrate

Analytical Reagent  
CdN<sub>2</sub>O<sub>6</sub>.4H<sub>2</sub>O MW =308.47

**Product code:** 303050100

**C.A.S. :** 10022-68-1

**100 gr**

**EINECS :** 233-710-6

Assay %  
Insoluble matter in water %  
Melting point °C  
Chloride (Cl) %  
Sulfate (SO<sub>4</sub>) %  
Lead (Pb)  
Copper (Cu) %  
Iron (Fe) %  
Zinc (Zn)  
Calcium (Ca) %  
Sodium (Na) %

Min 99  
Max 0.005  
About 59  
Max 0.001  
Max 0.002  
Max 0.003  
Max 0.001  
Max 0.001  
Max 0.001  
Max 0.005  
Max 0.005



H350-H272-H400-H410-H302-H312-H332  
P221-P210-P220-P304-P340-P405-P501A



## Cadmium nitrate tetrahydrate

Laboratory Reagent  
 $\text{CdN}_2\text{O}_6 \cdot 4\text{H}_2\text{O}$  MW =308.47

**Product code:** 302940250

**C.A.S. :** 10022-68-1

**250 gr**

**EINECS :** 233-710-6

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 99    |
| Insoluble matter in water % | Max 0.01  |
| Chloride (Cl) %             | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01  |
| Iron (Fe) %                 | Max 0.001 |
| Potassium (K) %             | Max 0.002 |
| Sodium (Na) %               | Max 0.01  |
| Zinc (Zn) %                 | Max 0.002 |



H350-H272-H400-H410-H302-H312-H332  
P221-P210-P220-P304-P340-P405-P501A

## Cadmium oxide

Laboratory Reagent  
 $\text{CdO}$  MW =128.41

**Product code:** 303430100

**C.A.S. :** 1306-19-0

**100 gr**

**EINECS :** 215-146-2

|                 |           |
|-----------------|-----------|
| Assay (ex Cd) % | Min 99.5  |
| Sodium (Na) %   | Max 0.01  |
| Potassium (K) % | Max 0.002 |
| Iron (Fe) %     | Max 0.005 |



H330-H350-H372-H341-H361-H400-H410  
P260-P284-P304-P340-P320-P405-P501A

## Cadmium sulfate octahydrate

Analytical Reagent  
 $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$  MW =769.52

**Product code:** 302510100

**C.A.S. :** 7790-84-3

**100 gr**

**EINECS :** 233-331-6

|                    |             |
|--------------------|-------------|
| Assay %            | 99 - 102    |
| Insoluble matter % | Max 0.005   |
| pH (5%; water)     | 3.0 - 6.0   |
| Total nitrogen %   | Max 0.0005  |
| Chloride (Cl) %    | Max 0.001   |
| Arsenic (As) %     | Max 0.00005 |
| Calcium (Ca) %     | Max 0.005   |
| Copper (Cu) %      | Max 0.001   |
| Iron (Fe) %        | Max 0.0005  |
| Lead (Pb) %        | Max 0.002   |
| Sodium (Na) %      | Max 0.005   |
| Zinc (Zn) %        | Max 0.005   |



H301-H330-H350-H360-H372-H400-H410  
P260-P284-P301-P310-P320-P405-P501

## Cadmium sulfate octahydrate

Laboratory Reagent  
 $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$  MW =769.52

**Product code:** 302430100

**C.A.S. :** 7790-84-3

**100 gr**

**EINECS :** 233-331-6

|                                                                           |            |
|---------------------------------------------------------------------------|------------|
| Assay (by complexometry, $\text{CdSO}_4 \cdot 8/3 \text{H}_2\text{O}$ ) % | Min 98     |
| Chloride (Cl) %                                                           | Max 0.005  |
| Arsenic (As) %                                                            | Max 0.0005 |
| Lead (Pb) %                                                               | Max 0.005  |
| Iron (Fe) %                                                               | Max 0.001  |
| Copper (Cu) %                                                             | Max 0.005  |



H301-H330-H350-H360-H372-H400-H410  
P260-P284-P301-P310-P320-P405-P501

## Caffeine anhydrous

Analytical Reagent  
 $\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2$  MW =194.19

**Product code:** 102350100

**C.A.S. :** 58-08-2

**100 gr**

**EINECS :** 200-362-1

|                                                              |              |
|--------------------------------------------------------------|--------------|
| Assay %                                                      | Min 99       |
| Water insoluble matter %                                     | Max 0.005    |
| Acidity %                                                    | Max 0.5 ml N |
| Melting point °C                                             | 235 - 237    |
| Loss on drying (at 80 °C) %                                  | Max 0.5      |
| Sulfated ash %                                               | Max 0.1      |
| Copper (Cu) %                                                | Max 0.0002   |
| Iron (Fe) %                                                  | Max 0.0002   |
| Lead (Pb) %                                                  | Max 0.0002   |
| Zinc (Zn) %                                                  | Max 0.0002   |
| Theobromine ( $\text{C}_7\text{H}_8\text{N}_4\text{O}_2$ ) % | Max 0.2      |



H301  
P264-P270-P301-P310-P321-P405-P501

## Calcium acetate hydrate

Analytical Reagent  
 $(\text{CH}_3\text{COO})_2\text{Ca} \cdot x\text{H}_2\text{O}(\text{anhy.})$  MW =158.17

**Product code:** 303150500

**C.A.S. :** 114460-21-8

**500 gr**

**EINECS :** 200-540-9

|                                                         |             |
|---------------------------------------------------------|-------------|
| Assay (by complexometry, on anhydrous Substance) %      | 99 - 100.5  |
| Appearance of the solution                              | Passes test |
| pH (5%, water)                                          | 7.0 - 9.0   |
| Barium (Ba) %                                           | Max 0.005   |
| Chloride (Cl) %                                         | Max 0.05    |
| Fluoride (F) %                                          | Max 0.005   |
| Sulfate ( $\text{SO}_4$ ) %                             | Max 0.1     |
| Heavy metals (as Pb) %                                  | Max 0.001   |
| Arsenic (As) %                                          | Max 0.0003  |
| Iron (Fe) %                                             | Max 0.002   |
| Lead (Pb) %                                             | Max 0.0002  |
| Water %                                                 | Max 7.0     |
| Matter insoluble in water %                             | Max 0.3     |
| Formic acid, formates and other oxidizable impurities % | Max 0.1     |



H315-H319-H335  
P261-P305-P351-P338

## Calcium acetate hydrate

Laboratory Reagent  
(CH<sub>3</sub>COO)<sub>2</sub>Ca.xH<sub>2</sub>O MW=158.17

**Product code:** 303510500

**C.A.S. :** 114460-21-8

**500 gr**

**EINECS :** 200-540-9

|                              |           |
|------------------------------|-----------|
| Assay (ex Ca) %              | Min 97    |
| Loss on drying (at 200 °C) % | Max 7.0   |
| Chloride (Cl) %              | Max 0.05  |
| Sulfate (SO <sub>4</sub> ) % | Max 0.2   |
| Iron (Fe) %                  | Max 0.002 |
| Lead (Pb) %                  | Max 0.001 |

## Calcium carbonate

Analytical Reagent  
CaCO<sub>3</sub> MW =100.09

**Product code:** 303030500

**C.A.S. :** 471-34-1

**500 gr**

**EINECS :** 207-439-9

|                              |            |
|------------------------------|------------|
| Assay %                      | Min 99     |
| Chloride (Cl) %              | Max 0.005  |
| Sulfate (SO <sub>4</sub> ) % | Max 0.02   |
| Heavy metals (Pb) %          | Max 0.001  |
| Iron (Fe) %                  | Max 0.02   |
| Arsenic (As) %               | Max 0.0003 |

## Calcium carbonate

Laboratory Reagent  
CaCO<sub>3</sub> MW =100.09

**Product code:** 303130500

**C.A.S. :** 471-34-1

**500 gr**

**EINECS :** 207-439-9

|                                       |            |
|---------------------------------------|------------|
| Assay %                               | Min 98     |
| Substances insoluble in acetic acid % | Max 0.2    |
| Substances insoluble in HCl %         | Max 0.2    |
| Chloride (Cl) %                       | Max 0.025  |
| Sulfate (SO <sub>4</sub> ) %          | Max 0.25   |
| Heavy metals (as Pb) %                | Max 0.002  |
| Lead (Pb) %                           | Max 0.001  |
| Copper (Cu) %                         | Max 0.001  |
| Zinc (Zn) %                           | Max 0.001  |
| Iron (Fe) %                           | Max 0.02   |
| Arsenic (As) %                        | Max 0.0003 |
| Magnesium (as alkali metals) %        | Max 1.0    |
| Loss on drying (200 °C, 4 hrs.) %     | Max 2.0    |

## Calcium hydroxide

Laboratory Reagent  
Ca(OH)<sub>2</sub> MW =74.09

**Product code:** 302740500

**C.A.S. :** 1305-62-0

**500 gr**

**EINECS :** 215-137-3

|                                                                         |           |
|-------------------------------------------------------------------------|-----------|
| Assay (Acidimetric) %                                                   | Min 95    |
| Chloride (Cl) %                                                         | Max 0.04  |
| Sulfate (SO <sub>4</sub> ) %                                            | Max 0.4   |
| Iron (Fe) %                                                             | Max 0.1   |
| Heavy metals (as Pb) %                                                  | Max 0.005 |
| Substances not precipitated by ammonium oxalate (as SO <sub>4</sub> ) % | Max 2.5   |



H314  
P260-P303-P361-P353-P305-P351-P338-P3016P330-P331-P405-P501

## Calcium nitrate tetrahydrate

Analytical Reagent  
Ca(NO<sub>3</sub>)<sub>2</sub>.4H<sub>2</sub>O MW =236.15

**Product code:** 303330500

**C.A.S. :** 13477-34-4

**500 gr**

**EINECS :** 233-332-1

|                                |            |
|--------------------------------|------------|
| Assay %                        | 99 - 103   |
| pH of 5% solution              | 5 - 7      |
| Nitrite (NO <sub>2</sub> ) %   | Max 0.001  |
| Ammonium (NH <sub>4</sub> ) %  | Max 0.005  |
| Insoluble matter in water %    | Max 0.005  |
| Chloride (Cl) %                | Max 0.005  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.005  |
| Barium (Ba) %                  | Max 0.01   |
| Copper (Cu) %                  | Max 0.001  |
| Iron (Fe) %                    | Max 0.0005 |
| Lead (Pb) %                    | Max 0.001  |
| Magnesium (Mg) %               | Max 0.015  |
| Potassium (K) %                | Max 0.005  |
| Sodium (Na) %                  | Max 0.02   |
| Strontium (Sr) %               | Max 0.01   |



H272-H315-H319-H335-H303  
P221-P210-P220-P305-P351-P338-P405-P501A

## Calcium nitrate tetrahydrate

Laboratory Reagent  
Ca(NO<sub>3</sub>)<sub>2</sub>.4H<sub>2</sub>O MW =236.15

**Product code:** 303320500

**C.A.S. :** 13477-34-4

**500 gr**

**EINECS :** 233-332-1

|                                                                     |           |
|---------------------------------------------------------------------|-----------|
| Assay %                                                             | Min 98    |
| Melting point °C                                                    | 42        |
| pH (5% water)                                                       | 4 - 6     |
| Chloride (Cl) %                                                     | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) %                                        | Max 0.02  |
| Heavy metals (as Pb) %                                              | Max 0.002 |
| Iron (Fe) %                                                         | Max 0.001 |
| Ammonium (NH <sub>4</sub> ) %                                       | Max 0.005 |
| Substances precipitated by ammonium oxalate (as SO <sub>4</sub> ) % | Max 0.3   |



H272-H315-H319-H335-H303  
P221-P210-P220-P305-P351-P338-P405-P501A

## Calcium oxide lumps

Analytical Reagent  
CaO MW =56.08

**Product code:** 302540500

**C.A.S. :** 1305-78-8

**500 gr**

**EINECS :** 215-138-9

|                                |           |
|--------------------------------|-----------|
| Assay %                        | Min 90    |
| Chloride (Cl) %                | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.01  |
| Nitrate (NO <sub>3</sub> ) %   | Max 0.05  |
| Heavy metals (as Pb) %         | Max 0.005 |
| Loss on ignition (at 800 °C) % | Max 10.0  |



H314  
P260-P301-P330-P331-P303-P361-P353-P331-P338-P405-P501

## Calcium oxide powder

Laboratory Reagent  
CaO MW =56.08

**Product code:** 302440500

**C.A.S. :** 1305-78-8

**500 gr**

**EINECS :** 215-138-9

Assay %  
Substances insoluble in HCl %  
Chloride (Cl) %  
Sulfate (SO<sub>4</sub>) %  
Heavy metals (as Pb) %  
Iron (Fe) %  
Loss on ignition (at 800 °C) %

Min 90  
Max 0.1  
Max 0.05  
Max 0.5  
Max 0.005  
Max 0.03  
Max 10



H314  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501

## Calcium-D-pantothenate

For Biochemistry  
C<sub>18</sub>H<sub>32</sub>CaN<sub>2</sub>O<sub>10</sub> MW =476.54

**Product code:** 302750025

**C.A.S. :** 137-08-6

**25 gr**

Calcium (Ca) %  
IR-Spectrum  
Chloride (Cl) %  
Loss on drying (at 105 °C) %

8.2 - 8.6  
Passes test  
Max 0.02  
Max 2.0

## Calcium sulfate anhydrous

Laboratory Reagent  
CaSO<sub>4</sub> MW =136.14

**Product code:** 302900500

**C.A.S. :** 7778-18-9

**500 gr**

**EINECS :** 231-900-3

Assay %  
Loss on ignition %

Min 96  
Max 3



H334-H350-H317-H402-H412  
P285-P261-P280-P342-P311-P405-P501A

## Calcium sulfate dihydrate

Analytical Reagent  
CaSO<sub>4</sub>·2H<sub>2</sub>O MW =172.17

**Product code:** 302660500

**C.A.S. :** 10101-41-4

**500 gr**

**EINECS :** 231-900-3

Assay %  
Substances insoluble in HCl %  
Free acid (as H<sub>2</sub>SO<sub>4</sub>) %  
Free alkali (as Ca(OH)<sub>2</sub>) %  
Chloride (Cl) %  
Total nitrogen (N) %  
Iron (Fe) %  
Heavy metals (as Pb) %  
Potassium (K) %  
Magnesium (Mg) %  
Sodium (Na) %

Min 99  
Max 0.01  
Max 0.01  
Max 0.01  
Max 0.005  
Max 0.001  
Max 0.001  
Max 0.002  
Max 0.01  
Max 0.01  
Max 0.1

## Calcium sulfate dihydrate

Laboratory Reagent  
CaSO<sub>4</sub>·2H<sub>2</sub>O MW =172.17

**Product code:** 302810500

**C.A.S. :** 10101-41-4

**500 gr**

**EINECS :** 231-900-3

Assay %  
Insoluble in HCl %  
Loss on ignition (at 800 °C, 4 hrs.) %  
Iron (Fe) %  
Heavy metals (as Pb) %  
Chloride (Cl) %

98 - 101  
Max 0.02  
18 - 22  
Max 0.002  
Max 0.005  
Max 0.03

## Calmagite indicator

Analytical Reagent  
C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>O<sub>5</sub>S MW =358.37

**Product code:** 102360005

**C.A.S. :** 3147-14-6

**5 gr**

**EINECS :** 221-563-0

Appearance Brownish black Crystalline  
Suitability as indicator

powder  
Passes test



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Camphor

Laboratory Reagent  
C<sub>10</sub>H<sub>16</sub>O MW =152.24

**Product code:** 102230100

**C.A.S. :** 76-22-2

**100 gr**

**EINECS :** 244-350-4

Assay %  
Melting point °C

Min 95  
172 - 180



H228-H315-H319  
P210-P280g-P305-P351-P338

## Capric acid

For Synthesis  
C<sub>10</sub>H<sub>20</sub>O<sub>2</sub> MW =172.27

**Product code:** 502050500

**C.A.S. :** 334-48-5

**500 ml**

**EINECS :** 206-376-4

Assay %  
Melting range °C

Min 98  
29 - 33



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Caproic acid

For Synthesis  
C<sub>6</sub>H<sub>12</sub>O<sub>2</sub> MW =116.6

**Product code:** 502060500

**C.A.S. :** 142-62-1

**500 gr**

**EINECS :** 205-550-7

Assay %  
Density (20°C/4 °C)

Min 98  
0.926 - 0.928



H311-H314-H318  
P260-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Caprylic acid

For Synthesis

$C_8H_{16}O_2$  MW =144.22

**Product code:** 502070500

**C.A.S. :** 124-07-2

**500 gr**

**EINECS :** 204-677-5

Assay (GC) %

Min 99

Density (d 20 °C/4 °C)

0.909 - 0.911



H314-H318-H302

P260-P303-P361-P353-P305-P338-P301-P330-P331-P405-P501A

## Carboxymethyl cellulose sodium salt high viscosity

Laboratory Reagent

**Product code:** 502100500

**500 gr**

**C.A.S. :** 9004-32-4

Assay (as Na) (calc.a.d.s.) (perchl. Ac.) %

6.5 - 9.5

Residue on ignition (as  $SO_4$ ) %

20 - 29.3

pH of 1% solution

6.5 - 8.0

Viscosity (2% soln at 20 °C)

400 - 800 cps

Loss on drying (at 105 °C) %

Max 10.0

Chloride (Cl) %

Max 0.25

Sodium glycolate %

Max 0.4

Heavy metals (as Pb) %

Max 0.002

Arsenic (As) %

Max 0.0003

Iron (Fe) %

Max 0.02

## Carmine

For Microscopy

**Product code:** 403100005

**C.A.S. :** 1390-65-4

**5 gr**

**EINECS :** 215-724-4

$\lambda$ 1 Max. Absorption in DMSO

563 - 571 nm

$\lambda$  2 Max. Absorption in DMSO

525 - 533 nm

A1%,1cm,  $\lambda$  1 max %

Min 70

A1%,1cm,  $\lambda$  2 max %

Min 100

Ration à max. P+/-15 nm (at 528 nm)

1.00 - 1.10

Loss on drying (at 110 °C) %

Max 15

## Casein acid hydrolysate

For Microbiology

**Product code:** DM1150500

**500 gr**

pH (1% w/v aqueous solution) 25 °C

6.8 - 7.4

Typical cultural response after 24 - 48 hours at 35 °C

E. Coli

good

Klebsiella

good

Salmonella

good

Biochemical test

Indole

+ ve

H<sub>2</sub>S

+ ve

Nitrate reduction

- ve

## Casein peptone

For Microbiology

**Product code:** DM1070500

**500 gr**

**C.A.S. :** 73049-73-7

Description light tan, homogenous, free flowing powder  
1% w/v aqueous solution remains clear amber, complete  
after autoclaving at 15 lbs

Solubility pressure (121 °C) for 15 minutes

pH of 2% w/v aqueous solution at 25 °C

6.5-7.5

Total nitrogen %

10

Amino nitrogen %

4

Ash %

Max 15.0

Loss on drying %

Max 5.0

## Castor oil

Laboratory Reagent

**Product code:** 503150500/1000

**C.A.S. :** 8001-79-4

**500 ml**

**EINECS :** 232-293-8

**1 L**

Specific gravity at 25 °C

0.957 - 0.961

Free fatty acids

Passes test

Hydroxyl value

160 - 168

Viscosity (20 °C)

950 - 1050 mPas

Saponification value

176 - 182

Iodine value

83 - 88

Acid value

Max 2.0

Unsataponificable %

Max 0.8

## Cedar wood oil

Laboratory Reagent

**Product code:** 509060025

**C.A.S. :** 8000-27-9

**25 ml**

Refractive index

1.480 1.50

Specific gravity at 25 °C

0.960 0.970



H315

## Cellobiose

For Biochemistry

$C_{12}H_{22}O_{11}$  MW =342.30

**Product code:** 500330005

**C.A.S. :** 528-50-7

**5 gr**

**EINECS :** 208-436-5

Assay %

Min 99

Heavy metals (as Pb) %

Max 0.001

Water %

Max 0.5

## Cellulose microcrystalline

For Thin Layer Chromatography

$(C_6H_{10}O_5)_n$

**Product code:** 500340500

**C.A.S. :** 9004-34-6

**500 gr**

**EINECS :** 232-674-9

Water soluble substances %

Max 0.2

Loss on drying (at 105 °C) %

Max 6.0

pH (2% suspension)

5.0 - 7.5

Starch & Dextrin

Passes test

Sulfated ash %

0.2



H335

P261-P304-P340-P312-P405-P403-P233-P501A

**Cerium (III) nitrate hexahydrate** Analytical Reagent  
 $\text{CeN}_3\text{O}_9 \cdot 6\text{H}_2\text{O}$  MW =434.23

**Product code:** 305170100  
**C.A.S. :** 10294-41-4 **100 gr**  
**EINECS :** 233-297-2

Assay (by complexometry) Min 99.9



H272-H318-H335-H315  
P221-P210-P305-P351-P338-P302-P352-P405-P501

**Cerium(IV) oxide** Analytical Reagent  
 $\text{CeO}_2$  MW =172.13

**Product code:** 305120100  
**C.A.S. :** 1306-38-3 **100 gr**  
**EINECS :** 215-150-4

Assay % Min 99.95  
Other rare earths (as oxide) % Max 0.05



H302  
P264-P270-P301-P312-P330-P501A

**Cesium chloride** Analytical Reagent  
 $\text{CsCl}$  MW=168.36

**Product code:** 505150025  
**C.A.S. :** 7647-17-8 **25 gr**  
**EINECS :** 231-600-2

Assay (argentometric) % Min 99.5  
Sulfate ( $\text{SO}_4$ ) % Max 0.002  
Total nitrogen (N) % Max 0.001  
Aluminium (Al) % Max 0.0005  
Lead (Pb) % Max 0.0001  
Iron (Fe) % Max 0.0003  
Potassium (K) % Max 0.002  
Copper (Cu) % Max 0.0003  
Lithium (Li) % Max 0.00005  
Magnesium (Mg) % Max 0.0005  
Sodium (Na) % Max 0.002  
Rubidium (Rb) % Max 0.008  
Zinc (Zn) % Max 0.0003

**Cesium nitrate** Analytical Reagent  
 $\text{CsNO}_3$  MW =194.91

**Product code:** 305150010  
**C.A.S. :** 7789-18-6 **10 gr**  
**EINECS :** 232-146-8

Assay % Min 99.5



H272  
P210-P220-P221-P280-P370-P378a-P501a

**Cesium sulfate** Analytical Reagent  
 $\text{Cs}_2\text{SO}_4$  MW =361.87

**Product code:** 305160010  
**C.A.S. :** 10294-54-9 **10 gr**  
**EINECS :** 233-662-6

Assay % Min 99.5

**Cetrimide agar base** For Microbiology

**Product code:** DM2450500 **500 gr**

Pancreatic digest of gelatin 20.000 G/L  
Magnesium chloride 1.400 G/L  
Potassium sulfate 10.000 G/L  
Cetrimide 0.300 G/L  
Agar 15.000 G/L  
Final pH (at 25°C)  $7.2 \pm 0.2$  G/L  
pH  $7.2 \pm 0.2$   
Reaction reaction of 4.67% w/v aqueous solution containing 1% glycerol at 25°C (after sterilization)

**N-Cetyl-n,n,n trimethyl ammonium bromide - CTAB** Analytical Reagent  
 $\text{C}_{19}\text{H}_{41}\text{BrN}$  MW =364.46

**Product code:** 503200100  
**C.A.S. :** 57-09-0 **100 gr**  
**EINECS :** 200-311-3

Assay % Min 99  
Heavy metals (as Pb) % Max 0.001  
Iron (Fe) % Max 0.001  
Sulfated ash % Max 0.1  
Loss on drying % Max 1.0



H318-H400-H410-H302-H335-H315  
P280-P273-P305-P351-P338-P337-P313-P391-P501

**N-Cetyl-n,n,n trimethyl ammonium bromide - CTAB** Laboratory Reagent  
 $\text{C}_{19}\text{H}_{41}\text{BrN}$  MW =364.46

**Product code:** 503100100  
**C.A.S. :** 57-09-0 **100 gr**  
**EINECS :** 200-311-3

Assay % Min 98



H318-H400-H410-H302-H335-H315  
P280-P273-P305-P351-P338-P337-P313-P391-P501

**Chapman stone agar** For Microbiology

**Product code:** DM2150500 **500 gr**

Casein enzymic hydrolysate 10.000 G/L  
Yeast extract 2.500 G/L  
Gelatin 30.000 G/L  
D-Mannitol 10.000 G/L  
Sodium chloride 55.000 G/L  
Ammonium sulfate 75.000 G/L  
Dipotassium phosphate 5.000 G/L  
Agar 15.000 G/L  
Final pH (at 25°C)  $7.0 \pm 0.2$   
pH range  $6.80 \pm 7.20$   
Reaction reaction of 20.25% w/v aqueous solution at 25°C pH  $7.0 \pm 0.2$

## Charcoal activated

Laboratory Reagent  
C MW=12.01

**Product code:** 502990500/1000

**C.A.S. :** 7440-44-0

**EINECS :** 231-153-3

500 gr  
1 kg

|                                   |                 |
|-----------------------------------|-----------------|
| Substances soluble in HCl %       | Max 5.0         |
| Substances soluble in water %     | Max 2.0         |
| Heavy metals (as Pb) %            | Max 0.01        |
| Arsenic (As) %                    | Max 0.0005      |
| Lead (Pb) %                       | Max 0.005       |
| Iron (Fe) %                       | Max 0.05        |
| Zinc (Zn) %                       | Max 0.15        |
| n-Hexane absorption %             | Max 30.0        |
| Residue on ignition (At 800 °C) % | Max 5.0         |
| Loss on drying (At 120 °C) %      | Max 10.0        |
| Iodine absorption                 | 750 - 800 mg/gm |

## Chitin

Laboratory Reagent  
(C<sub>8</sub>H<sub>13</sub>NO<sub>3</sub>)<sub>n</sub> MW =400.000

**Product code:** 503040100

**C.A.S. :** 1398-61-4

**EINECS :** 215-744-3

100 gr

|                |                       |
|----------------|-----------------------|
| Appearance     | Light brownish flakes |
| Sulfated ash % | Max 5.0               |

## Chloramine T trihydrate

For Synthesis  
C<sub>7</sub>H<sub>7</sub>ClNNaO<sub>3</sub>S.3H<sub>2</sub>O MW =281.69

**Product code:** 503280100

**C.A.S. :** 7080-50-4

**EINECS :** 204-854-7

100 gr

|                               |             |
|-------------------------------|-------------|
| Assay %                       | 98 - 103    |
| Appearance of solution        | Passes test |
| pH (5% ;water)                | 8.0 - 10.0  |
| Matter insoluble in ethanol % | Max 2.0     |
| Ortho compounds               | Passes test |



H334-H314-H318-H302

P260-P285-P303-P361-P353-P305-P351-P338-P405-P501A

## 2-Chloroaniline

Laboratory Reagent  
C<sub>6</sub>H<sub>6</sub>ClN MW =127.57

**Product code:** 520320500

**C.A.S. :** 95-51-2

**EINECS :** 202-426-4

500 ml

|         |               |
|---------|---------------|
| Assay % | Min 98        |
| Density | (d20 °C/4 °C) |



H301-H311-H331-H373-H400-H410

P280-P273-P302-P352-P309-P310-P501

## 3-Chloroaniline

Laboratory Reagent  
C<sub>6</sub>H<sub>6</sub>ClN MW =127.57

**Product code:** 503110500

**C.A.S. :** 108-42-9

**EINECS :** 203-581-0

500 ml

|                       |               |
|-----------------------|---------------|
| Assay %               | Min 98        |
| Density (d20 °C/4 °C) | 1.215 - 1.216 |



H301-H311-H331-H373-H400-H410  
P280-P273-P302-P352-P309-P310-P501

## 4-Chloroaniline

Laboratory Reagent  
C<sub>6</sub>H<sub>6</sub>ClN MW =127.57

**Product code:** 503270500

**C.A.S. :** 106-47-8

**EINECS :** 203-401-0

500 gr

|                  |         |
|------------------|---------|
| Assay %          | Min 98  |
| Melting point °C | 69 - 72 |



H301-H311-H331-H373-H400-H410  
P280-P273-P302-P352-P309-P310-P501

## Chlorobenzene

Analytical Reagent  
C<sub>6</sub>H<sub>5</sub>Cl MW =112.56

**Product code:** 203180500

**C.A.S. :** 108-90-7

**EINECS :** 203-628-5

500 ml

|                             |               |
|-----------------------------|---------------|
| Assay %                     | Min 99.5      |
| Density (g/ml) at 20 °C     | 1.105 - 1.107 |
| Residue after evaporation % | Max 0.01      |



H226-H332-H411  
P262-P273

## Chlorobenzene

For Synthesis  
C<sub>6</sub>H<sub>5</sub>Cl MW =112.56

**Product code:** 202980500

**C.A.S. :** 108-90-7

**EINECS :** 203-628-5

500 ml

|                    |               |
|--------------------|---------------|
| Assay %            | Min 99        |
| Density (d 20°/4°) | 1.105 - 1.107 |



H226-H332-H411  
P262-P273



## Chloroform

Analytical Reagent  
 $\text{CHCl}_3$  MW =119.4

**Product code:** 220222500

**C.A.S. :** 67-66-3

**2.5 L**

**EINECS :** 200-663-8

|                                   |            |
|-----------------------------------|------------|
| Assay (by GC) %                   | Min 99.5   |
| Water (KF) %                      | Max 0.05   |
| Acidity (meq/g) (meq/g)           | Max 0.0005 |
| Residue on Evaporation %          | Max 0.001  |
| Free Chlorine ( $\text{Cl}_2$ ) % | Max 0.0005 |
| Stabiliser (Ethanol) %            | ~1         |



H351-H373-H302-H315  
P260-P280-P302-P352-P321-P405-P501

## Chloroform

General Purpose Reagent  
 $\text{CHCl}_3$  MW =119.4

**Product code:** 220372500

**C.A.S. :** 67-66-3

**2.5 L**

**EINECS :** 200-663-8

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99.0   |
| Water (KF) %             | Max 0.1    |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Residue on Evaporation % | Max 0.005  |
| Stabiliser (Ethanol) %   | ~1         |



H351-H373-H302-H315  
P260-P280-P302-P352-P321-P405-P501

## Chloroform

For HPLC  
 $\text{CHCl}_3$  MW =119.4

**Product code:** 220241000

**C.A.S. :** 67-66-3

**1 L**

**EINECS :** 200-663-8

|                                                 |            |
|-------------------------------------------------|------------|
| Assay (GC) %                                    | Min 99.8   |
| Non volatile matter %                           | Max 0.0005 |
| Acidity (HCl) %                                 | Max 0.002  |
| Water %                                         | Max 0.05   |
| Maximum absorption a 1.0 cm cell against water, |            |
| At 245 nm                                       | 1.00       |
| At 260 nm                                       | 0.10       |
| At 270 nm                                       | 0.02       |
| At 290 nm                                       | 0.01       |



H351-H373-H302-H315  
P260-P280-P302-P352-P321-P405-P501

## Chloroform

For Spectroscopy  
 $\text{CHCl}_3$  MW =119.4

**Product code:** 220291000

**C.A.S. :** 67-66-3

**1 L**

**EINECS :** 200-663-8

|                                                    |            |
|----------------------------------------------------|------------|
| Assay (GC) %                                       | Min 99     |
| Water %                                            | Max 0.05   |
| Non volatile substances %                          | Max 0.0005 |
| Maximum absorption in a 1.0 cm cell against water, |            |
| At 245 nm                                          | 1.00       |
| At 260 nm                                          | 0.10       |
| At 270 nm                                          | 0.02       |
| At 290 nm                                          | 0.01       |



H351-H373-H302-H315  
P260-P280-P302-P352-P321-P405-P501

## 2-Chlorophenol

For Synthesis  
 $\text{Cl.C}_6\text{H}_4\text{.OH}$  MW =128.56

**Product code:** 520340500

**C.A.S. :** 95-57-8

**500 ml**

**EINECS :** 202-433-2

|                    |                 |
|--------------------|-----------------|
| Assay (GC) %       | Min 98          |
| Wt.per ml at 20 °C | 1.261 - 1.265 g |



H302-H312-H332-H227  
H401-H411-P273-P302-P352

## Cholesterol

Analytical Reagent  
 $\text{C}_{27}\text{H}_{46}\text{O}$  MW =386.66

**Product code:** 503210005/0025

**C.A.S. :** 57-88-5

**5 gr  
25 gr**

**EINECS :** 200-353-2

|                  |           |
|------------------|-----------|
| Assay %          | Min 99    |
| Melting point °C | 148 - 150 |

## Choline chloride

Laboratory Reagent  
 $\text{C}_5\text{H}_{14}\text{ClNO}$  MW =139.63

**Product code:** 503030100

**C.A.S. :** 67-48-1

**100 gr**

**EINECS :** 200-655-4

|                                 |            |
|---------------------------------|------------|
| Assay (on dry material) %       | 98 - 100.5 |
| Loss on drying at 110 °C %      | Max 1.0    |
| Sulfated ash %                  | Max 0.2    |
| Free amine (as dimethylamine) % | Max 0.1    |



H315-H319-H335-H303  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Chromium metal powder

Laboratory Reagent  
Cr MW =52.00

**Product code:** 303250500

**C.A.S. :** 7440-47-3

**500 gr**

**EINECS :** 231-157-5

|         |        |
|---------|--------|
| Assay % | Min 99 |
|---------|--------|



H228-H351  
P210-P241-P280-P308-P313-P405-P501a



**Chromium (III) chloride hexahydrate** Laboratory Reagent  
 $\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$  MW = 266.45

**Product code:** 302780500

**C.A.S. :** 10060-12-5

**500 gr**

**EINECS :** 233-038-3

|                                                                       |           |
|-----------------------------------------------------------------------|-----------|
| Assay %                                                               | Min 93    |
| pH (5% water)                                                         | 2.0 - 3.0 |
| Sulfate ( $\text{SO}_4$ ) %                                           | Max 0.05  |
| Copper (Cu) %                                                         | Max 0.001 |
| Iron (Fe) %                                                           | Max 0.01  |
| Lead (Pb) %                                                           | Max 0.005 |
| Substances not precipitated by ammonia solution (as $\text{SO}_4$ ) % | Max 0.2   |



H334-H314-H302-H317

P260-P285-P303-P361-P353-P305-P351-P338-P405-P501

**Chromium (III) nitrate nonahydrate** Laboratory Reagent  
 $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$  MW = 400.01

**Product code:** 308150500

**C.A.S. :** 7789-02-8

**500 gr**

**EINECS :** 236-921-1

|                              |           |
|------------------------------|-----------|
| Assay %                      | Min 97    |
| Chloride (Cl) %              | Max 0.01  |
| Sulfate ( $\text{SO}_4$ ) %  | Max 0.05  |
| Iron (Fe) %                  | Max 0.05  |
| Copper (Cu) %                | Max 0.005 |
| Ammonium ( $\text{NH}_4$ ) % | Max 0.01  |



H272-H332-H319

P210-P220-P221-P261-P305-P351-P338-P501

**Chromium (III) oxide green** Laboratory Reagent  
 $\text{Cr}_2\text{O}_3$  MW = 151.99

**Product code:** 303340500

**C.A.S. :** 1308-38-9

**500 gr**

**EINECS :** 215-160-9

|                                |           |
|--------------------------------|-----------|
| Substances soluble in water %  | Max 0.3   |
| Chloride (Cl) %                | Max 0.01  |
| Heavy metals (as Pb) %         | Max 0.002 |
| Iron (Fe) %                    | Max 0.02  |
| Loss on ignition (at 950 °C) % | Max 1     |



H302-H332-H317

P261-P280-P304-P340-P301-P312-P312-P501A

**Chromium (IV) oxide** Laboratory Reagent  
 $\text{CrO}_3$  MW = 99.99

**Product code:** 303530500

**C.A.S. :** 1333-82-0

**500 gr**

**EINECS :** 215-607-8

|                             |          |
|-----------------------------|----------|
| Assay (iodometric) %        | Min 98   |
| Chloride (Cl) %             | Max 0.1  |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.06 |
| Iron (Fe) %                 | Max 0.01 |
| Potassium (K) %             | Max 0.1  |
| Sodium (Na) %               | Max 0.05 |



271-H301-H310-H330-H317-H334-H340-H350-H372-H361-H314-H318-H400-H410  
P221-P283-P301-P310-P303-P361-P353-P304-P340-P305-P351-P338-P320-P330  
P361-P405-P501A

**Chromotropic acid disodium salt dihydrate** Analytical Reagent  
 $\text{C}_{10}\text{H}_6\text{Na}_2\text{O}_8\text{S}_2 \cdot 2\text{H}_2\text{O}$  MW = 400.29

**Product code:** 125060010

**C.A.S. :** 5808-22-0

**10 gr**

**EINECS :** 204-972-9

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 98.5  |
| Water (Karl Fischer) %      | 8.5 - 9.5 |
| Sulfated ash %              | 35 - 36   |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.002 |



H315-H319-H335

P261-P302-P352-P305-P351-P338-P321-P405-P501

**Cinnamaldehyde** For Synthesis  
 $\text{C}_9\text{H}_8\text{O}$  MW = 132.16

**Product code:** 303520500

**C.A.S. :** 104-55-2

**500 ml**

**EINECS :** 203-213-9

|                                   |               |
|-----------------------------------|---------------|
| Assay %                           | Min 98        |
| Density (d <sub>20</sub> °C/4 °C) | 1.040 - 1.050 |



H315-H319-H317-H303-H313

P280G-P262-P305-P351-P338

**Cinnamic acid** For Synthesis  
 $\text{C}_9\text{H}_8\text{O}_2$  MW = 148.16

**Product code:** 101370250

**C.A.S. :** 140-10-3

**250 gr**

**EINECS :** 205-398-1

|                       |           |
|-----------------------|-----------|
| Assay (acidimetric) % | Min 99    |
| Melting point °C      | 132 - 136 |



H319

P305-P351-P338

**Finding US on the web**

[www.biochemopharma.fr](http://www.biochemopharma.fr)

## Citric acid anhydrous

Analytical Reagent  
 $C_6H_8O_7$  MW =192.12

**Product code:** 103110500

**C.A.S. :** 77-92-9

**500 gr**

**EINECS :** 201-069-1

|                             |              |
|-----------------------------|--------------|
| Assay (acidimetric) %       | 99.5 - 100.5 |
| Chloride (Cl) %             | Max 0.001    |
| Insoluble matter in water % | Max 0.005    |
| Iron (Fe) %                 | Max 0.0003   |
| Sulfate ( $SO_4$ ) %        | Max 0.005    |
| Phosphate ( $PO_4$ ) %      | Max 0.001    |
| Heavy metals (as Pb) %      | Max 0.0005   |
| Arsenic (As) %              | Max 0.0001   |
| Mercury (Hg) %              | Max 0.0001   |
| Lead (Pb) %                 | Max 0.0002   |
| Sulfated ash (at 600 °C) %  | Max 0.02     |
| Water (KF) %                | Max 0.5      |



H318-H335-H315  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Citric acid anhydrous

Laboratory Reagent  
 $C_6H_8O_7$  MW =192.12

**Product code:** 103030500

**C.A.S. :** 77-92-9

**500 gr**

**EINECS :** 201-069-1

|                        |           |
|------------------------|-----------|
| Assay %                | Min 99.5  |
| Water (KF) %           | Max 0.5   |
| Sulfated ash %         | Max 0.05  |
| Iron (Fe) %            | Max 0.005 |
| Heavy metals (as Pb) % | Max 0.001 |
| Chloride (Cl) %        | Max 0.005 |
| Sulfate ( $SO_4$ ) %   | Max 0.015 |



H318-H335-H315  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Citric acid monohydrate

Analytical Reagent  
 $C_6H_8O_7 \cdot H_2O$  MW =210.14

**Product code:** 103090500

**C.A.S. :** 5949-29-1

**500 gr**

**EINECS :** 201-069-1

|                                       |            |
|---------------------------------------|------------|
| Assay (by NaOH titration) %           | 99.5-102   |
| Residue on ignition (at 800 °C) %     | Max 0.02   |
| Insoluble matter (C=13.2%, $H_2O$ ) % | Max 0.005  |
| Chloride (Cl) %                       | Max 0.001  |
| Lead (Pb) %                           | Max 0.0002 |
| Iron (Fe) %                           | Max 0.0003 |
| Sulfate ( $SO_4$ ) %                  | Max 0.002  |
| Phosphate ( $PO_4$ ) %                | Max 0.001  |



H318-H335-H315  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Citric acid monohydrate

Laboratory Reagent  
 $C_6H_8O_7 \cdot H_2O$  MW =210.14

**Product code:** 103080500

**C.A.S. :** 5949-29-1

**500 gr**

**EINECS :** 201-069-1

|                             |            |
|-----------------------------|------------|
| Assay (acidimetric) %       | Min 99     |
| Insoluble matter in water % | Max 0.01   |
| Chloride (Cl) %             | Max 0.005  |
| Sulfate ( $SO_4$ ) %        | Max 0.01   |
| Oxalate ( $C_2O_4$ ) %      | Max 0.035  |
| Heavy metals (as Pb) %      | Max 0.001  |
| Lead (Pb) %                 | Max 0.001  |
| Iron (Fe) %                 | Max 0.001  |
| Zinc (Zn) %                 | Max 0.001  |
| Arsenic (As) %              | Max 0.0001 |
| Calcium (Ca) %              | Max 0.02   |
| Barium (Ba) %               | Max 0.002  |
| Water %                     | 7.5 - 8.8  |
| Sulfated ash (at 600 °C) %  | Max 0.05   |



H318-H335-H315  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Cobalt (II) acetate tetrahydrate

Laboratory Reagent  
 $Co(H_2O)_4CoO_4 \cdot 4H_2O$  MW =249.08

**Product code:** 302580250

**C.A.S. :** 6147-53-1

**250 gr**

**EINECS :** 200-755-8

|                            |           |
|----------------------------|-----------|
| Assay (by complexometry) % | Min 98.5  |
| Chloride (Cl) %            | Max 0.005 |
| Sulfate ( $SO_4$ ) %       | Max 0.01  |
| Lead (Pb) %                | Max 0.001 |
| Nickel (Ni) %              | Max 0.1   |
| Iron (Fe) %                | Max 0.01  |



H334-H350i-H360F-H400-H410-H317  
P201-P273-P308-P313-P501a

## Cobalt (II) carbonate basic

Laboratory Reagent  
 $CoCO_3$  MW =118.94

**Product code:** 302700100

**C.A.S. :** 534-16-7

**100 gr**

**EINECS :** 208-169-4

|                       |           |
|-----------------------|-----------|
| Cobalt (Co) %         | 45 - 50   |
| Chloride (Cl) %       | Max 0.005 |
| Sulfate ( $SO_4$ ) %  | Max 0.05  |
| Ammonium ( $NH_4$ ) % | Max 0.1   |
| Iron (Fe) %           | Max 0.1   |
| Nickel (Ni) %         | Max 0.5   |



H334-H350-H360-H341-H400-H410-H317  
P261-P285-P302-P352-P321-P405-P501

|                                                                                  |               |                                                      |
|----------------------------------------------------------------------------------|---------------|------------------------------------------------------|
| <b>Cobalt (II) chloride hexahydrate</b>                                          |               | Analytical Reagent                                   |
|                                                                                  |               | $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ MW =237.93 |
| <b>Product code:</b> 303090100                                                   |               |                                                      |
| <b>C.A.S. :</b> 7791-13-1                                                        | <b>100 gr</b> |                                                      |
| <b>EINECS :</b> 231-589-4                                                        |               |                                                      |
| Assay %                                                                          | 98 - 102      |                                                      |
| Insoluble matter %                                                               | Max 0.01      |                                                      |
| Nitrate ( $\text{NO}_3$ ) %                                                      | Max 0.01      |                                                      |
| Sulfate ( $\text{SO}_4$ ) %                                                      | Max 0.1       |                                                      |
| Calcium (Ca) %                                                                   | Max 0.005     |                                                      |
| Copper (Cu) %                                                                    | Max 0.002     |                                                      |
| Iron (Fe) %                                                                      | Max 0.005     |                                                      |
| Magnesium (Mg) %                                                                 | Max 0.005     |                                                      |
| Nickel (Ni) %                                                                    | Max 0.01      |                                                      |
| Potassium (K) %                                                                  | Max 0.01      |                                                      |
| Sodium (Na) %                                                                    | Max 0.05      |                                                      |
| Zinc (Zn) %                                                                      | Max 0.03      |                                                      |
|  |               |                                                      |
| H334-H350-H360-H341-H400-H410-H302-H317<br>P273-P201-P308-P313-P501              |               |                                                      |

|                                                                                    |               |                                                                 |
|------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------|
| <b>Cobalt (II) nitrate hexahydrate</b>                                             |               | Analytical Reagent                                              |
|                                                                                    |               | $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ MW =291.03 |
| <b>Product code:</b> 315140100                                                     |               |                                                                 |
| <b>C.A.S. :</b> 10026-22-9                                                         | <b>100 gr</b> |                                                                 |
| <b>EINECS :</b> 233-402-1                                                          |               |                                                                 |
| Assay %                                                                            | Min 99        |                                                                 |
| Insoluble matter %                                                                 | Max 0.005     |                                                                 |
| Reaction                                                                           | pH 2.5        |                                                                 |
| Chloride (Cl) %                                                                    | Max 0.001     |                                                                 |
| Sulfate ( $\text{SO}_4$ ) %                                                        | Max 0.005     |                                                                 |
| Ammonium ( $\text{NH}_4$ ) %                                                       | Max 0.05      |                                                                 |
| Calcium (Ca) %                                                                     | Max 0.005     |                                                                 |
| Copper (Cu) %                                                                      | Max 0.001     |                                                                 |
| Iron (Fe) %                                                                        | Max 0.001     |                                                                 |
| Lead (Pb) %                                                                        | Max 0.001     |                                                                 |
| Magnesium (Mg) %                                                                   | Max 0.002     |                                                                 |
| Manganese (Mn) %                                                                   | Max 0.002     |                                                                 |
| Nickel (Ni) %                                                                      | Max 0.01      |                                                                 |
| Potassium (K) %                                                                    | Max 0.003     |                                                                 |
| Sodium (Na) %                                                                      | Max 0.05      |                                                                 |
| Zinc (Zn) %                                                                        | Max 0.005     |                                                                 |
|  |               |                                                                 |
| H272-H334-H350-H360-H341-H400-H410-H317<br>P210-P221-P285-P302-P352-P405-P501      |               |                                                                 |

|                                                                                    |               |                                                      |
|------------------------------------------------------------------------------------|---------------|------------------------------------------------------|
| <b>Cobalt (II) sulfate heptahydrate</b>                                            |               | Laboratory Reagent                                   |
|                                                                                    |               | $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$ MW =281.10 |
| <b>Product code:</b> 315220100                                                     |               |                                                      |
| <b>C.A.S. :</b> 10026-24-1                                                         | <b>100 gr</b> |                                                      |
| <b>EINECS :</b> 233-334-2                                                          |               |                                                      |
| Assay (by complexometry) %                                                         | 97 - 102      |                                                      |
| Chloride (Cl) %                                                                    | Max 0.02      |                                                      |
| Lead (Pb) %                                                                        | Max 0.005     |                                                      |
| Iron (Fe) %                                                                        | Max 0.005     |                                                      |
|  |               |                                                      |
| H334-H350-H360-H341-H400-H410-H302-H317<br>P201-P273-P308-P313-P501                |               |                                                      |

|                                                                                    |             |                                                    |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------|
| <b>Colchicine</b>                                                                  |             | Laboratory Reagent                                 |
|                                                                                    |             | $\text{C}_{22}\text{H}_{25}\text{NO}_6$ MW =399.45 |
| <b>Product code:</b> 503220001                                                     |             |                                                    |
| <b>C.A.S. :</b> 64-86-8                                                            | <b>1 gr</b> |                                                    |
| <b>EINECS :</b> 200-598-5                                                          |             |                                                    |
| Assay %                                                                            | Min 98.5    |                                                    |
| Water (KF) %                                                                       | Max 1       |                                                    |
|  |             |                                                    |
| H300-H340<br>P201-P301-P310-P308-P313                                              |             |                                                    |

|                                                                                   |               |                    |
|-----------------------------------------------------------------------------------|---------------|--------------------|
| <b>Collodion 4% solution</b>                                                      |               | Laboratory Reagent |
| <b>Product code:</b> 167630500                                                    | <b>500 ml</b> |                    |
| Assay w/w %                                                                       | 5 - 5.5       |                    |
| Ethanol (G.C.) (v/v) %                                                            | 22 - 26       |                    |
| Density                                                                           | 0.765 - 0.775 |                    |
|  |               |                    |
| H224-H302-H336<br>P210-P261                                                       |               |                    |

|                                 |                                                            |                  |
|---------------------------------|------------------------------------------------------------|------------------|
| <b>Columbia blood agar base</b> |                                                            | For Microbiology |
| <b>Product code:</b> DM2470500  | <b>500 gr</b>                                              |                  |
| Peptone, special                | 23.000 G/L                                                 |                  |
| Corn starch                     | 1.000 G/L                                                  |                  |
| Sodium chloride                 | 5.000 G/L                                                  |                  |
| Agar                            | 15.000 G/L                                                 |                  |
| Final pH (at 25°C)              | 7.3 ± 0.2 G/L                                              |                  |
| pH rang                         | 7.10 - 7.50                                                |                  |
| Reaction                        | reaction of 4.4% w/v aqueous solution at 25°C pH 7.3 ± 0.2 |                  |

|                                        |                |                    |
|----------------------------------------|----------------|--------------------|
| <b>Conductivity Standard 147 µS/cm</b> |                | Laboratory Reagent |
| <b>Product code:</b> 167650500         | <b>500 ml</b>  |                    |
| Tolerance %                            | +/- 1          |                    |
| Appearance                             | Clear solution |                    |

|                                         |                |                    |
|-----------------------------------------|----------------|--------------------|
| <b>Conductivity Standard 1413 µS/cm</b> |                | Laboratory Reagent |
| <b>Product code:</b> 167660500          | <b>500 ml</b>  |                    |
| Tolerance %                             | +/- 1          |                    |
| Appearance                              | Clear solution |                    |

|                                          |                |                    |
|------------------------------------------|----------------|--------------------|
| <b>Conductivity Standard 12880 µS/cm</b> |                | Laboratory Reagent |
| <b>Product code:</b> 167670500           | <b>500 ml</b>  |                    |
| Tolerance %                              | +/- 1          |                    |
| Appearance                               | Clear solution |                    |

## Congo red C.I.22120

For Microscopy  
 $C_{32}H_{28}N_6Na_2O_6S_2$  MW =696.67

**Product code:** 403050100

**C.A.S. :** 573-58-0

**100 gr**

**EINECS :** 209-358-4

Appearance Brownish red powder  
Description Brownish red powder  
Appearance of solution (1.0 g/l; water) clear to almost slightly, red turbid solution  
Transition range at pH 3.0 to pH 5.2 Violet to orange red  
Loss on drying at 110°C % Max 5.0



H350-H361  
P201-P202-P281-P308-P313-P405-P501

## Coomassie brilliant blue G 250

For Electrophoresis  
 $C_{47}H_{48}N_3NaO_7S_2$  MW =854.04

**Product code:** 403110005/0025

**C.A.S. :** 6104-58-1

**5 gr  
25 gr**

**EINECS :** 228-058-4

Loss on drying % Max 8  
Identity (UV/VIS-Spectrum) Passes test  
Absorption maxima  $\lambda$ .Max (buffer pH 7.0) 577 - 584  
Spec. Absorptivity A 1% 1cm ( $\lambda$ .max; 0.01%; buffer pH 7.0) 520 - 570  
TLC test Passes test  
Suitability for Electrophoresis Passes test

## Coomassie brilliant blue R 250

For Electrophoresis  
 $C_{45}H_{44}N_3NaO_7S_2$  MW =825.99

**Product code:** 403120005/0025

**C.A.S. :** 6104-59-2

**5 gr  
25 gr**

**EINECS :** 228-060-5

Identity (UV/VIS Spectrum) Passes test  
Absorption maxima  $\lambda$ .max (buffer pH 7.0) 554 - 563  
Spec. Absorptivity A1% 1cm ( $\lambda$ .max; 0.025%; buffer pH 7.0) Min 300  
Loss on drying % Max 5  
Suitability for electrophoresis Passes test



H311-H331-H370-H226  
P210-P260-P303-P361-P353-P361-P405-P501A

## Copper (II) acetate monohydrate

Analytical Reagent  
 $(CH_3COO)_2Cu \cdot H_2O$  MW=199.65

**Product code:** 302620250

**C.A.S. :** 6046-93-1

**250 gr**

**EINECS :** 205-553-3

Assay (by iodometry) % Min 99  
Chloride (Cl) % Max 0.001  
Sulfate ( $SO_4$ ) % Max 0.005  
Total Nitrogen (N) % Max 0.01  
Lead (Pb) % Max 0.004  
Nickel (Ni) % Max 0.002  
Iron (Fe) % Max 0.002  
Zinc (Zn) % Max 0.002  
Calcium (Ca) % Max 0.005  
Sodium (Na) % Max 0.01  
Potassium (K) % Max 0.01



H400-H410-H302-H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Copper (II) acetate monohydrate

Laboratory Reagent  
 $(CH_3COO)_2Cu \cdot H_2O$  MW=199.65

**Product code:** 302860250

**C.A.S. :** 6046-93-1

**250 gr**

**EINECS :** 205-553-3

Assay % Min 98  
Chloride (Cl) % Max 0.01  
Sulfate ( $SO_4$ ) % Max 0.03  
Alkalis (Sulfated) % Max 0.3  
Iron (Fe) % Max 0.02



H400-H410-H302-H315-H319-H335  
P261-P280-P305-P351-P338-P304-P405-P501A

## Copper(II) chloride anhydrous

Analytical Reagent  
 $CuCl_2$  MW =134.45

**Product code:** 303210500

**C.A.S. :** 7447-39-4

**500 gr**

**EINECS :** 231-210-2

Assay (iodometry) % Min 98.0  
Substances insoluble in ethanol % Max 0.5  
Loss on drying at 250°C for 2hr % Max 5.0



H301-H314-H318-H400-H410  
P260-P301-P310-P303-P361-P353-P305-P351-P338-P405-P501A

## Copper (II) chloride dihydrate

Laboratory Reagent  
 $CuCl_2 \cdot 2H_2O$  MW =170.48

**Product code:** 303440500

**C.A.S. :** 10125-13-0

**500 gr**

**EINECS :** 231-210-2

Assay (iodometric) % Min 98  
Sulfate ( $SO_4$ ) % Max 0.02  
Arsenic (As) % Max 0.0008  
Iron (Fe) % Max 0.005  
Substances not precipitated by  $H_2S$  (as  $SO_4$ ) Max 0.5  
Loss on drying (at 105 °C) % 20.9 - 21.4



H314-H400-H410-H302  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P405-P501

## Copper (II) nitrate trihydrate

Laboratory Reagent  
 $Cu(NO_3)_2 \cdot 3H_2O$  MW =241.60

**Product code:** 303450250

**C.A.S. :** 10031-43-3

**250 gr**

Assay (ex Cu) % 95 - 103  
Chloride (Cl) % Max 0.005  
Sulfate ( $SO_4$ ) % Max 0.02  
Iron (Fe) % Max 0.02



H272-H314-H318-H302  
P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Copper (II) oxide powder

Laboratory Reagent  
CuO MW=79.55

**Product code:** 303220100

**C.A.S. :** 1317-38-0

**100 gr**

**EINECS :** 215-269-1

|                              |          |
|------------------------------|----------|
| Assay %                      | Min 97   |
| Chloride (Cl) %              | Max 0.1  |
| Sulfate (SO <sub>4</sub> ) % | Max 0.06 |
| Iron (Fe) %                  | Max 0.01 |



H301-H330-H373-400-H410  
P260-P301-P310-P304-P340-P320-P330-405-P501

## Copper (II) sulfate pentahydrate

Laboratory Reagent  
CuSO<sub>4</sub>·5H<sub>2</sub>O MW=249.68

**Product code:** 302890500

**C.A.S. :** 7758-99-8

**500 gr**

**EINECS :** 231-847-6

|                 |            |
|-----------------|------------|
| Assay %         | 98.5 - 101 |
| Chloride (Cl) % | Max 0.005  |
| Iron (Fe) %     | Max 0.05   |
| Potassium (K) % | Max 0.005  |
| Sodium (Na) %   | Max 0.01   |



H400-H410-H302-H315-H319  
P260-P273-P501

## Copper powder

Laboratory Reagent  
Cu MW=63.55

**Product code:** 303000500

**C.A.S. :** 7440-50-8

**500 gr**

**EINECS :** 231-159-6

|                                            |            |
|--------------------------------------------|------------|
| Assay (iodometric) %                       | Min 99.5   |
| Lead (Pb) %                                | Max 0.05   |
| Iron (Fe) %                                | Max 0.005  |
| Arsenic (As) %                             | Max 0.0002 |
| Substances insoluble in HNO <sub>3</sub> % | Max 0.05   |
| Antimony (Sb) %                            | Max 0.005  |
| Manganese (Mn) %                           | Max 0.005  |
| Silver (Ag) %                              | Max 0.005  |
| Tin (Sn) %                                 | Max 0.005  |



H228-H319-H335  
P210-P241-P261-P305-P351-P338-P405-P501

## Creatine monohydrate

Laboratory Reagent  
C<sub>4</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>·H<sub>2</sub>O MW=149.15

**Product code:** 503050025

**C.A.S. :** 6020-87-7

**25 gr**

**EINECS :** 200-306-6

|                |          |
|----------------|----------|
| Assay %        | Min 99   |
| Sulfated ash % | Max 0.05 |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Copper (II) sulfate anhydrous

Laboratory Reagent  
CuSO<sub>4</sub> MW=159.60

**Product code:** 302880500

**C.A.S. :** 7758-98-7

**500 gr**

**EINECS :** 231-847-6

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| Assay (iodometric on dried substances) %                          | 99 - 101  |
| Chloride (Cl) %                                                   | Max 0.015 |
| Nitrate (NO <sub>3</sub> ) %                                      | Max 0.05  |
| Iron (Fe) %                                                       | Max 0.015 |
| Lead (Pb) %                                                       | Max 0.005 |
| Zinc (Zn) %                                                       | Max 0.02  |
| Substances not precipitable with H <sub>2</sub> SO <sub>4</sub> % | Max 0.3   |
| Loss on drying (250°C) %                                          | Max 1.0   |



H400-H410-H302-H315-H319  
P280-P273-P305-P351-P338-P362-P301-P312-P501A

## Creatinine

Analytical Reagent  
C<sub>4</sub>H<sub>7</sub>N<sub>3</sub>O MW=113.12

**Product code:** 503000025

**C.A.S. :** 60-27-5

**25 gr**

**EINECS :** 200-466-7

|                                                             |           |
|-------------------------------------------------------------|-----------|
| Assay %                                                     | Min 99    |
| Heavy metals (Pb) %                                         | Max 0.002 |
| Chloride (Cl) %                                             | Max 0.2   |
| pH (5% in water)                                            | 7.0 - 9.0 |
| Specific absorptivity A1%,1cm, (234 nm,0.001%buffer pH 7.0) | 620 - 640 |
| Creatine %                                                  | Max 0.2   |

## Cresol red

Analytical Reagent  
C<sub>21</sub>H<sub>18</sub>O<sub>5</sub>S MW=382.44

**Product code:** 403270005/0025

**C.A.S. :** 1733-12-6

**5 gr  
25 gr**

**EINECS :** 217-064-2

|                              |              |
|------------------------------|--------------|
| Acid range pH 0.2 - 1.8      | Red tyellow  |
| Alkaline range pH 7 - 8.8    | Yellowpurple |
| Loss on drying (at 110 °C) % | Max 5        |

## m-Cresol

Laboratory Reagent  
C<sub>7</sub>H<sub>8</sub>O MW=108.14

**Product code:** 403230500

**C.A.S. :** 108-39-4

**500 ml**

**EINECS :** 203-577-9

|                    |               |
|--------------------|---------------|
| Assay %            | Min 98        |
| Density (d 20°/4°) | 1.033 - 1.034 |
| Melting point °C   | 11            |



H301-H311-H314  
P280-P303-P361-P353-P305-P351-P338-P310



|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
| <b>o-Cresol</b>                                                                  | Laboratory Reagent   |
| <b>Product code:</b> 403240500                                                   | $C_7H_8O$ MW =108.14 |
| <b>C.A.S. :</b> 95-48-7                                                          | <b>500 ml</b>        |
| <b>EINECS :</b> 202-423-8                                                        |                      |
| Assay %                                                                          | Min 98               |
| Density (d <sub>20</sub> <sup>°</sup> /4 °C)                                     | 1.045 - 1.046        |
| Melting point °C                                                                 | 29 - 33              |
|  |                      |
| H301-H311-H314<br>P280-P303-P361-P353-P305-P351-P338-P310                        |                      |

|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
| <b>p-Cresol</b>                                                                  | Laboratory Reagent   |
| <b>Product code:</b> 314290500                                                   | $C_7H_8O$ MW =108.14 |
| <b>C.A.S. :</b> 106-44-5                                                         | <b>500 ml</b>        |
| <b>EINECS :</b> 203-398-6                                                        |                      |
| Assay %                                                                          | Min 98               |
| Melting range °C                                                                 | 31 - 34              |
|  |                      |
| H301-H311-H314<br>P280-P303-P361-P353-P305-P351-P338-P310                        |                      |

|                                                                 |                                    |
|-----------------------------------------------------------------|------------------------------------|
| <b>o-Cresolphthalein complexone</b>                             | Laboratory Reagent                 |
| <b>Product code:</b> 116120001                                  | $C_{32}H_{32}N_2O_{12}$ MW =636.61 |
| <b>C.A.S. :</b> 2411-89-4                                       | <b>1 gr</b>                        |
| <b>EINECS :</b> 219-318-8                                       |                                    |
| Absorption maxima (NaOH 0.1mol/L)                               | 577 - 580 nm                       |
| Absorptivity (Absorption maxima 0.005g/l NaOH solution 0.1 mol) | Min 750                            |
| Water (by KF) %                                                 | Max 10                             |
| Sulfated ash %                                                  | Max 1                              |
| Suitability as indicator                                        | Passes test                        |

|                                              |                              |
|----------------------------------------------|------------------------------|
| <b>o-Cresolphthalein</b>                     | Laboratory Reagent           |
| <b>Product code:</b> 116220005               | $C_{22}H_{18}O_4$ MW =346.39 |
| <b>C.A.S. :</b> 596-27-0                     | <b>5 gr</b>                  |
| <b>EINECS :</b> 209-881-8                    |                              |
| pH 8.2-9.8                                   | Colourless to violet red     |
| Absorption maxima (at pH 11.3)               | 565 - 569 nm                 |
| Specific Absorptivity (at absorption maxima) | Min 1500                     |
| Insoluble matter in ethanol                  | Passes test                  |
| Loss on drying (at 135 °C) %                 | Max 0.5                      |
| Sulfated ash %                               | Max 0.5                      |

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| <b>Crotonaldehyde</b>                                                                   | For Synthesis       |
| <b>Product code:</b> 403190500                                                          | $C_4H_6O$ MW =70.09 |
| <b>C.A.S. :</b> 123-73-9                                                                | <b>500 ml</b>       |
| <b>EINECS :</b> 224-030-0                                                               |                     |
| Assay (GC) %                                                                            | Min 99              |
| Density (d <sub>20</sub> <sup>°</sup> /4 °C)                                            | 0.851 - 0.853       |
|       |                     |
| H225-H301-H311-H330-H315-H335-H341-H373-H400<br>P210-P280-P304-P340-P309-P310-P302-P352 |                     |

|                                                                                   |                       |
|-----------------------------------------------------------------------------------|-----------------------|
| <b>Crotonic acid</b>                                                              | Laboratory Reagent    |
| <b>Product code:</b> 103010250                                                    | $C_4H_6O_2$ MW =86.09 |
| <b>C.A.S. :</b> 107-93-7                                                          | <b>250 gr</b>         |
| <b>EINECS :</b> 203-533-96                                                        |                       |
| Assay (T) %                                                                       | Min 97                |
| Melting point °C                                                                  | 70 - 73               |
|  |                       |
| H311-H314-H302<br>P260-P303-P361-P353-P305-P351-P338-P361-P405-P501               |                       |

|                                                                                    |                                |
|------------------------------------------------------------------------------------|--------------------------------|
| <b>Crystal violet C.I. 42555</b>                                                   | For Microscopy                 |
| <b>Product code:</b> 403220025/0100                                                | $C_{25}H_{30}ClN_3$ MW =407.99 |
| <b>C.A.S. :</b> 548-62-9                                                           | <b>25 gr</b>                   |
| <b>EINECS :</b> 208-953-6                                                          | <b>100 gr</b>                  |
| Absorption maxima                                                                  | 589 - 594 nm                   |
| Dye content %                                                                      | Min 88                         |
| Specific absorptivity                                                              | 2050 - 2450                    |
| Loss on drying %                                                                   | Max 10                         |
|  |                                |
| H301-H318-H351-H400-H410<br>P280-P301-P310-P305-P351-P338-P321-P405-P501           |                                |

|                                    |                  |
|------------------------------------|------------------|
| <b>Crystal violet lactose agar</b> | For Microbiology |
| <b>Product code:</b> DM2160500     | <b>500 gr</b>    |
| Proteose peptone                   | 5.00 G/L         |
| Beef extract                       | 3.00 G/L         |
| Lactose                            | 10.00 G/L        |
| Crystal violet                     | 0.0033 G/L       |
| Agar                               | 15.00 G/L        |
| Final pH (at 25 °C)                | 6.8 ± 0.2        |

|                                                                                     |                              |
|-------------------------------------------------------------------------------------|------------------------------|
| <b>Curcumin crystalline</b>                                                         | Laboratory Reagent           |
| <b>Product code:</b> 403210005                                                      | $C_{21}H_{20}O_6$ MW =368.39 |
| <b>C.A.S. :</b> 458-37-7                                                            | <b>5 gr</b>                  |
| <b>EINECS :</b> 207-280-5                                                           |                              |
| Assay (acidimetric) %                                                               | Min 99                       |
| Melting point °C                                                                    | 170 - 180                    |
|  |                              |
| H315-H319-H335<br>P261-P280-P305-P351-P338-P304-P340-P405-P501A                     |                              |

|                                                                                      |                       |
|--------------------------------------------------------------------------------------|-----------------------|
| <b>Cyclohexane</b>                                                                   | Analytical Reagent    |
| <b>Product code:</b> 201042500                                                       | $C_6H_{12}$ MW =84.16 |
| <b>C.A.S. :</b> 110-82-7                                                             | <b>2.5 L</b>          |
| <b>EINECS :</b> 203-806-2                                                            |                       |
| Assay %                                                                              | Min 99                |
| Water (KF) %                                                                         | Max 0.02              |
| Acidity (meq/g) (meq/g)                                                              | Max 0.0005            |
| Residue on Evaporation %                                                             | Max 0.001             |
| Aromatic compounds %                                                                 | Max 0.05              |
|  |                       |
| H304-H400-H410-H315-H336<br>P261-P301-P310-P302-P352-P321-P405                       |                       |

## Cyclohexane

For Synthesis  
 $C_6H_{12}$  MW =84.16

**Product code:** 200662500

**C.A.S. :** 110-82-7

**2.5 L**

**EINECS :** 203-806-2

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 98.0   |
| Water %                  | Max 0.1    |
| Residue on Evaporation % | Max 0.005  |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |



H304-H400-H410-H315-H336  
P261-P301-P310-P302-P352-P321-P405

## Cyclohexanol

Analytical Reagent  
 $C_6H_{12}O$  MW=100.16

**Product code:** 203120500

**C.A.S. :** 108-93-0

**500 ml**

**EINECS :** 203-630-6

|                                            |               |
|--------------------------------------------|---------------|
| Assay %                                    | Min 99.5      |
| Wt. per ml at 20 °C %                      | About 0.95    |
| Freezing point                             | 20 - 22 °C    |
| Refractive index (n <sub>D</sub> 20 °C /D) | 1.465 - 1.467 |
| Cyclohexanone %                            | Max 0.5       |



H332-H315-H335-H227-H303  
P210-P261-P280-P304-P340-P405-P501A

## Cyclohexanone

Analytical Reagent  
 $C_6H_{10}O$  MW =98.15

**Product code:** 203000500

**C.A.S. :** 108-94-1

**500 ml**

**EINECS :** 203-631-1

|                                                   |                    |
|---------------------------------------------------|--------------------|
| Assay %                                           | Min 99.5           |
| Refractive index                                  | 1.450 - 1.451      |
| Wt. per ml at 20 °C                               | 0.945 - 0.947 g/ml |
| Water %                                           | Max 0.2            |
| Non volatile matter %                             | Max 0.02           |
| Acidity (CH <sub>3</sub> COOH) %                  | Max 0.001          |
| Cyclohexane (C <sub>6</sub> H <sub>12</sub> ) %   | Max 0.001          |
| Cyclohexanol (C <sub>6</sub> H <sub>12</sub> O) % | Max 0.2            |
| Copper (Cu) %                                     | Max 0.00005        |
| Iron (Fe) %                                       | Max 0.0001         |
| Lead (Pb) %                                       | Max 0.00005        |



H226-H332  
P210-P261-P280-P303-P361-P353-P403-P235-P501A

## Cyclohexene

For Synthesis  
 $C_6H_{10}$  MW =82.15

**Product code:** 203260500

**C.A.S. :** 110-83-8

**500 ml**

**EINECS :** 203-807-8

|                                    |               |
|------------------------------------|---------------|
| Assay (GC, area %) %               | Min 98        |
| Density (d <sub>20</sub> °C /4 °C) | 0.810 - 0.811 |
| Identity                           | Conforms      |



H225-H301-H304  
P210-P280-P301-P310-P303-P361-P353-P405-P501A

## L-Cysteine

For Biochemistry  
 $C_3H_7NO_2S$  MW=121.16

**Product code:** 203030005/0025

**C.A.S. :** 52-90-4

**5 gr  
25 gr**

**EINECS :** 200-158-2

|                                                                        |             |
|------------------------------------------------------------------------|-------------|
| Assay %                                                                | Min 99      |
| Specific rotation                                                      | 8.0° - 9.0° |
| UV absorption                                                          | Max 0.5     |
| Loss on drying (at 105 °C; 3 hrs.)                                     | Max 0.3     |
| Chloride (Cl) %                                                        | Max 0.002   |
| Sulfate (SO <sub>4</sub> ) %                                           | Max 0.01    |
| Heavy metals (as Pb) %                                                 | Max 0.001   |
| Ammonium (NH <sub>4</sub> ) %                                          | Max 0.01    |
| Foreign amino acids other ninhydrin positive substances (as glycine) % | Max 0.1     |



H302  
P264-P270-P301-P312-P330-P501

## L-Cysteine hydrochloride monohydrate

For Biochemistry  
MW=175.64  $C_3H_7ClNO_2S \cdot H_2O$

**Product code:** 203020005/0025

**C.A.S. :** 7048-04-6

**5 gr  
25 gr**

**EINECS :** 200-157-7

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Assay %                                                        | Min 99         |
| Specific rotation UV absorption (280 nm, 1 mol/l, 1 cm, water) | Max 0.1        |
| Specific Rotation                                              | +5.5° to +7.0° |
| Sulfate (SO <sub>4</sub> ) %                                   | Max 0.01       |
| Heavy metals (as Pb) %                                         | Max 0.001      |
| Ammonium (NH <sub>4</sub> ) %                                  | Max 0.01       |
| Foreign amino acids %                                          | Max 0.3        |
| Other Ninhydrin-positive substances (as Glycine) %             | Max 0.1        |
| Water %                                                        | 9 - 11.5       |



H315-H319-H335  
P261-P305-P351-P353-P338-P302-P352-P321-P405-P501

## Cytidine

For Biochemistry  
 $C_9H_{13}N_3O_5$  MW =243.22

**Product code:** 203200001/0005

**C.A.S. :** 65-46-3

**1 gr  
5 gr**

**EINECS :** 200-610-9

|                  |           |
|------------------|-----------|
| Assay %          | Min 99    |
| Melting point °C | 210 - 220 |
| Ash %            | Max 0.05  |



Finding  
US on the web

www.biochemopharma.fr

## n-Decane

For Synthesis  
 $C_{10}H_{22}$  MW =142.28

**Product code:** 504560100

**C.A.S. :** 124-18-5

**100 ml**

**EINECS :** 204-686-4

Assay (by GC) %

Min 99.0

Density

0.728-0.732 (d20°C/4°C)

Identity (IR)

Passes test



H304-H226

P210-P280-P301-P310-P303-P361-P353-P405-P501A

## 1-Decanol

Laboratory Reagent  
 $C_{10}H_{22}O$  MW =158.29

**Product code:** 520240500

**C.A.S. :** 112-30-1

**500 ml**

**EINECS :** 203-956-9

Assay (GC) %

Min 99

Density (d20°C/4°C)

0.829 - 0.830



H332-H315-H319-H227-H303-H313-H401-H411

P280H-P273-P305-P351-P338

## Dextrin white

Laboratory Reagent  
 $(C_6H_{12}O_5)_n \cdot xH_2O$

**Product code:** 504140500

**C.A.S. :** 9004-53-9

**500 gr**

**EINECS :** 232-675-4

Loss on drying (at 110 °C) %

Max 5

Sulfated ash %

Max 0.02

Reducing sugar (as dextrose) %

Max 0.4

## Dextrose tryptone agar

For Microbiology

**Product code:** DM2510500

**500 gr**

Casein enzymic hydrolysate

10.000 G/L

Dextrose

5.00 G/L

Bromocresol purple

0.040

Agar

15.00 G/L

Final pH (at 25°C)

6.7±0.2

## Diacetyl monoxime

Analytical Reagent  
 $C_4H_7NO_2$  MW =101.11

**Product code:** 204010100

**C.A.S. :** 57-71-6

**100 gr**

**EINECS :** 200-348-5

Assay %

Min 99

Melting point °C

74 - 76

Sulfated ash %

Max 0.025

## 1,2-Dichlorobenzene

Analytical Reagent  
 $C_6H_4Cl_2$  MW=147.00

**Product code:** 204340500

**C.A.S. :** 95-50-1

**500 gr**

**EINECS :** 202-425-9

Assay %

Min 99

Density (d20°C/4°C)

1.305 - 1.307

Refractive index  $n_D^{20}$

1.5510 - 1.5520

Water (KF) %

Max 0.01

Sulfated ash %

Max 0.001

Free acid (as HCl) %

Max 0.001

Heavy metals (as Pb) %

Max 0.0001

Chloride (Cl) %

Max 0.0001

Iron (Fe) %

Max 0.0001



H400-H410-H302-H315-H319-H335-H227

P210-P305-P351-P338-P302-P352-P321-P405-P501A

## 1,4-Dichlorobenzene

For Synthesis  
 $C_6H_4Cl_2$  MW =147.00

**Product code:** 204170500

**C.A.S. :** 106-46-7

**500 gr**

**EINECS :** 203-400-5

Assay %

Min 99

Melting point

52 - 56°C



H351-H400-H410-H302-H332-H319

P261-P280-P281-P305-P351-P338-P405-P501A

## 1,2-Dichloroethane

Analytical Reagent  
 $C_2H_4Cl_2$  MW =98.96

**Product code:** 300190500/2500

**C.A.S. :** 107-06-2

**500 ml  
2.5 L**

**EINECS :** 203-458-1

Assay %

Min 99

Wt. per ml at 20 °C

1.252 - 1.254 g

Refractive index

1.443 - 1.445

Water %

Max 0.03

Non volatile matter %

Max 0.002

Free chlorine (Cl) %

Max 0.0001

Copper (Cu) %

Max 0.0001

Iron (Fe) %

Max 0.0001

Lead (Pb) %

Max 0.0001

Substances reducing permanganate (O) %

Max 0.0001



H225-H350-H302-H315-H319-H335

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A



## 1,2-Dichloroethane

For Synthesis  
 $C_2H_4Cl_2$  MW=98.96

**Product code:** 300222500

**C.A.S. :** 107-06-2

**2.5 L**

**EINECS :** 203-458-1

|                                   |                 |
|-----------------------------------|-----------------|
| Assay %                           | Min 98          |
| Wt.per ml at 20 °C                | 1.251 - 1.254 g |
| Non volatile matter %             | Max 0.01        |
| Free chlorine %                   | Max 0.002       |
| Reducing substances to $KMnO_4$ % | Max 0.01        |



H225-H350-H302-H315-H319-H335

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Dichloromethane

Analytical Reagent  
 $CH_2Cl_2$  MW=84.93

**Product code:** 204232500

**C.A.S. :** 75-09-2

**2.5 L**

**EINECS :** 200-838-9

|                            |             |
|----------------------------|-------------|
| Assay (by GC) %            | Min 99.8    |
| Water (KF) %               | Max 0.02    |
| Residue on Evaporation %   | Max 0.001   |
| Acidity (meq/g) (meq/g)    | Max 0.0005  |
| Free Chlorine ( $Cl_2$ ) % | Max. 0.0002 |
| Stabiliser (Amylene) (ppm) | ~50         |



H351

P281-P201-P202-P308-P313-P405-P501A

## Dichloromethane

For HPLC & Spectroscopy  
 $CH_2Cl_2$  MW=84.93

**Product code:** 204181000

**C.A.S. :** 75-09-2

**1 L**

**EINECS :** 200-838-9

|                       |            |
|-----------------------|------------|
| Assay (GC) %          | Min 99.8   |
| Non volatile matter % | Max 0.0005 |
| Acidity (HCl)         | Max 0.005  |
| Water %               | Max 0.01   |
| Min transmission:     |            |
| At 235 nm %           | 10         |
| At 240 nm %           | 50         |
| At 245 nm %           | 80         |
| At 248 nm %           | 90         |
| From 255 nm %         | 98         |



H351

P281-P201-P202-P308-P313-P405-P501A

## Diethanolamine

Analytical Reagent  
 $C_4H_{11}NO_2$  MW =105.14

**Product code:** 204130500

**C.A.S. :** 111-42-2

**500 ml**

**EINECS :** 203-868-0

|                                    |            |
|------------------------------------|------------|
| Assay (GC) %                       | Min 99     |
| Apparent equivalent weight         | 104 - 106  |
| Freezing point                     | 27 - 28 °C |
| APHA color                         | Max 15     |
| Residue on ignition (as $SO_4$ ) % | Max 0.002  |
| Ethanolamine (GC) %                | Max 0.3    |
| Triethanolamine (GC) %             | Max 0.3    |
| Chloride (Cl) %                    | Max 0.001  |
| Water %                            | Max 0.15   |
| Heavy metals (as Pb) %             | Max 0.0001 |
| Iron (Fe) %                        | Max 0.0001 |



H318-H315-H373-H302

P260-P280-P305-P351-P338-P310-P362-P501A

## Diethanolamine

For Synthesis  
 $C_4H_{11}NO_2$  MW =105.14

**Product code:** 204260500

**C.A.S. :** 111-42-2

**500 ml**

**EINECS :** 203-868-0

|                             |                |
|-----------------------------|----------------|
| Assay (acidimetric) %       | Min 98.0       |
| Colour (APHA)               | Max 30         |
| Wt.per ml at 20 °C          | 1.096 - 1.100g |
| Refractive index $n_D^{20}$ | 1.476 - 1.477  |
| Freezing point °C           | 25 - 28        |
| Water (KF) %                | Max 0.5        |



H318-H315-H373-H302

P260-P280-P305-P351-P338-P310-P362-P501A

## Diethylamine

Analytical Reagent  
 $(C_2H_5)_2NH$  MW =73.14

**Product code:** 204040500

**C.A.S. :** 109-89-7

**500 ml**

**EINECS :** 203-716-3

|                          |             |
|--------------------------|-------------|
| Assay %                  | Min 99.5    |
| Residue on evaporation % | Max 0.001   |
| Iron (Fe) %              | Max 0.00005 |
| Lead (Pb) %              | Max 0.00001 |
| Cobalt (Co) %            | Max 0.00001 |
| Nickel (Ni) %            | Max 0.00001 |
| Copper (Cu) %            | Max 0.00001 |
| Cadmium (Cd) %           | Max 0.00001 |
| Zinc (Zn) %              | Max 0.0001  |
| Chromium (Cr) %          | Max 0.00001 |
| Manganese (Mn) %         | Max 0.00001 |



H225-H314-H302-H312-H332

P210-P241-P303-P361-P353-P305-P351-P338-P405-P501



## Diethylene glycol

**Product code:** 204270500/2500

**C.A.S. :** 111-46-6

**EINECS :** 203-872-2

|                    |                 |
|--------------------|-----------------|
| Assay %            | Min 99          |
| Wt.per ml at 20 °C | 1.115 - 1.117 g |
| Refractive index   | 1.446 - 1.447   |
| Water %            | Max 0.2         |
| Sulfated ash %     | Max 0.01        |
| Copper (Cu) %      | Max 0.00005     |
| Iron (Fe) %        | Max 0.00005     |
| Lead (Pb) %        | Max 0.00005     |



H351  
P281-P201-P202-P308-P313-P405-P501A

Analytical Reagent

O(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub> MW=106.12

500 ml  
2.5 L

## Diisopropyl ether

**Product code:** 209100500

**C.A.S. :** 108-20-3

**EINECS :** 203-560-6

|                                                |                  |
|------------------------------------------------|------------------|
| Assay (GC) %                                   | Min 99           |
| Density (d20°C/°C)                             | 0.720 - 0.723    |
| APHA color                                     | Max 25           |
| Titrate acid                                   | Max 0.0005 meq/g |
| Alkalinity                                     | Max 0.0002 meq/g |
| Aluminium (Al) %                               | Max 0.00005      |
| Barium (B) %                                   | Max 0.00001      |
| Boron (B) %                                    | Max 0.000005     |
| Cadmium (Cd) %                                 | Max 0.000005     |
| Chromium (Cr) %                                | Max 0.000002     |
| Cobalt (Co) %                                  | Max 0.000002     |
| Copper (Cu) %                                  | Max 0.000002     |
| Iron (Fe) %                                    | Max 0.00001      |
| Magnesium (Mg) %                               | Max 0.00001      |
| Manganese (Mn) %                               | Max 0.000002     |
| Nickel (Ni) %                                  | Max 0.000002     |
| Tin (Sn) %                                     | Max 0.00001      |
| Peroxide (as H <sub>2</sub> O <sub>2</sub> ) % | Max 0.005        |
| Non volatile substances %                      | Max 0.005        |
| Water %                                        | Max 0.05         |



H225-H330-H336  
P210-P303-P361-P353-P304-P340-P320-P405-P501A

## N,N-Dimethylacetamide

**Product code:** 204110500

**C.A.S. :** 127-19-5

**EINECS :** 204-826-4

|                                     |                 |
|-------------------------------------|-----------------|
| Assay %                             | Min 99.5        |
| Wt per ml at 20 °C                  | 0.940 - 0.942 g |
| Refractive index n <sub>20</sub> /D | 1.4375 - 1.4385 |
| Water %                             | Max 0.05        |
| Acidity (CH <sub>3</sub> COOH) %    | Max 0.12        |
| Non volatile matter %               | Max 0.01        |
| Chloride (Cl) %                     | Max 0.001       |
| Sulfate (SO <sub>4</sub> ) %        | Max 0.001       |
| Copper (Cu) %                       | Max 0.0001      |
| Iron (Fe) %                         | Max 0.0005      |
| Lead (Pb) %                         | Max 0.0001      |



H360D-H312-H332  
P261-P280-P281-P302-P352-P405-P501

Analytical Reagent

C<sub>4</sub>H<sub>9</sub>NO MW =87.12

500 ml

## Dimethylamine solution 40%

**Product code:** 204220500/2500

**C.A.S. :** 124-40-3

**EINECS :** 204-697-4

|                       |               |
|-----------------------|---------------|
| Assay (acidimetric) % | Min 40        |
| Density (d20 °C/4 °C) | 0.885 - 0.895 |



H225-H331-H302-H335-H314-H318  
P210-P260-P303-P361-P353-P305-P351-P338-P405-P501A

For Synthesis

(CH<sub>3</sub>)<sub>2</sub>NH MW =45.09

500 ml  
2.5 L

## N,N-Dimethylaniline

**Product code:** 204520500

**C.A.S. :** 121-69-7

**EINECS :** 204-493-5

|                             |                    |
|-----------------------------|--------------------|
| Assay (GC) %                | Min 99             |
| Wt. per ml at 20 °C         | 0.954 - 0.958 g/ml |
| Aniline and methylaniline % | Max 1              |



H301-H311-H331-H226-H351-H411  
P280-P273-P302-P352-P309-P310

For Synthesis

C<sub>8</sub>H<sub>11</sub>N MW = 121.18

500 ml

## Dimidium bromide

**Product code:** 504260001

**C.A.S. :** 518-67-2

**EINECS :** 208-256-7

|                                             |              |
|---------------------------------------------|--------------|
| Assay (HClO <sub>4</sub> Titration) %       | Min 98       |
| Extinction maximum (in Methanol)            | 523 - 528 nm |
| Absorptivity(A1%/1cm,&#955 max in Methanol) | 155 - 175    |
| Loss on drying (at 110 °C) %                | Max 5        |



H315-H319-H335  
P261-P302-P352-P305-P351-P338-P321-P405-P501

For Synthesis

C<sub>20</sub>H<sub>18</sub>N<sub>3</sub>Br MW =380.30

1 gr

## 1,4-Dioxane

**Product code:** 504390500

**C.A.S. :** 123-91-1

**EINECS :** 204-661-8

|                                                                            |                 |
|----------------------------------------------------------------------------|-----------------|
| Assay %                                                                    | Min 99.5        |
| Wt.per ml at 20 °C                                                         | 1.032 - 1.034 g |
| APHA Color                                                                 | Max 10          |
| Freezing point °C                                                          | Min 11          |
| Refractive index                                                           | 1.421 - 1.423   |
| Water %                                                                    | Max 0.05        |
| Acidity (CH <sub>3</sub> COOH) %                                           | Max 0.02        |
| Non volatile matter %                                                      | Max 0.01        |
| Acetal [CH <sub>3</sub> CH(OC <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> ] | Max 0.8         |
| Copper (Cu) %                                                              | Max 0.0001      |
| Iron (Fe) %                                                                | Max 0.0001      |
| Lead (Pb) %                                                                | Max 0.0001      |



H225-H351-H319-H335  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501

Analytical Reagent

C<sub>6</sub>H<sub>8</sub>O<sub>2</sub> MW=88.11

500 ml

## 1,4-Dioxane

For Synthesis  
 $C_6H_{10}O_2$  MW=88.11

**Product code:** 504271000/2500

**C.A.S. :** 123-91-1

**EINECS :** 204-661-8

1 L  
2.5 L

Assay % Min 99  
Wt.per ml at 20 °C 1.030 - 1.035 g  
Water % Max 0.1  
Free acid ( $CH_3COOH$ ) % Max 0.01  
Peroxide (as  $H_2O_2$ ) % Max 0.005



H225-H351-H319-H335

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501

## Dulcitol

For Microbiology  
 $C_6H_{14}O_6$  MW =182.17

**Product code:** 504400025

**C.A.S. :** 608-66-2

**EINECS :** 210-165-2

25 gr

Melting range °C 185 - 188  
Heavy metals (as Pb) % Max 0.001  
Water % Max 0.5

## 1,3-Dioxolane

Analytical Reagent  
 $C_3H_6O_2$  MW =74.06

**Product code:** 504080500

**C.A.S. :** 646-06-0

**EINECS :** 211-463-5

500ml

Assay (GC, area) % Min 99  
Density ( $n_D^{20}$  /4 °C) 1.064 - 1.066  
Water (KF) % Max 0.3  
Identity (IR) Passes test



H225-H303-H333

P210-P280-P240-P303-P361-P353-P403-P235-P501A

## 1,4-Dithiothreitol (D.T.T)

Laboratory Reagent  
 $C_4H_{10}O_2S_2$  MW =154.24

**Product code:** 321030001

**C.A.S. :** 3483-12-3

**EINECS :** 222-468-7

1 gr

Assay % Min 99  
Iron (Fe) % Max 0.0005  
Heavy metals (Pb) % Max 0.001  
Melting point °C 40 - 41



H302-H315-H319-H335

P261-P305-P351-P353-P338-P302-P352-P321-P405-P501

## L-Dopa

For Biochemistry  
 $C_9H_{11}NO_4$  MW =197.19

**Product code:** 319760005

**C.A.S. :** 59-92-7

**EINECS :** 200-445-2

5 gr

Assay % Min 99.0  
Melting range °C 276-278  
Optical Rotation -13.5 to -12°



H302

P264-P270-P301-P312-P330-P501



Finding  
US on the web

[www.biochemopharma.fr](http://www.biochemopharma.fr)

## Egg albumine powder

Laboratory Reagent

**Product code:** 505180500**C.A.S. :** 9006-59-1**500 gr****EINECS :** 232-692-7

|                     |                                         |
|---------------------|-----------------------------------------|
| pH (10% in water)   | 7.0–8.0                                 |
| Moisture %          | Max 7.0                                 |
| Solubility %        | Min 85                                  |
| Protein (Nx6.681) % | Min 80                                  |
| Foaming ability     | To satisfy the test to satisfy the test |

Microbiological analysis

|                    |                |
|--------------------|----------------|
| Total plate count  | Max 25000/gm   |
| Coliform           | Max 10/gm      |
| Yeast & mold count | Max 50/gm      |
| Salmonellae        | Absent in 25gm |

## EMB agar

For Microbiology

**Product code:** DM2170500**500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Peptic digest of animal tissue | 10.000 G/L                                                 |
| Dipotassium phosphate          | 2.000 G/L                                                  |
| Lactose                        | 5.000 G/L                                                  |
| Sucrose                        | 5.000 G/L                                                  |
| Eosin-Y                        | 0.400 G/L                                                  |
| Methylene blue                 | 0.065 G/L                                                  |
| Agar                           | 15.500 G/L                                                 |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                  |
| pH range                       | 7.00 - 7.40                                                |
| Reaction                       | reaction of 3.6% w/v aqueous solution at 25°C pH 7.2 ± 0.2 |

## ENDO agar

For Microbiology

**Product code:** DM2180500**500 gr**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Peptic digest of animal tissue | 10.000 G/L                                                  |
| Lactose                        | 10.000 G/L                                                  |
| Dipotassium phosphate          | 3.500 G/L                                                   |
| Sodium sulfite                 | 2.500 G/L                                                   |
| Basic fuchsin                  | 0.500 G/L                                                   |
| Agar                           | 15.000 G/L                                                  |
| Final pH (at 25°C)             | 7.5 ± 0.2                                                   |
| pH range                       | 7.30 - 7.70                                                 |
| Reaction                       | reaction of 4.15% w/v aqueous solution at 25°C pH 7.5 ± 0.2 |

## (±)-Epichlorohydrin

Laboratory Reagent

C<sub>3</sub>H<sub>5</sub>ClO MW =92.53**Product code:** 316390500**C.A.S. :** 106-89-8**500 ml****EINECS :** 203-439-8

|                                               |               |
|-----------------------------------------------|---------------|
| Assay %                                       | Min 99        |
| Refractive index n <sub>D</sub> <sup>20</sup> | 1.437 - 1.439 |
| Density n <sub>D</sub> <sup>20</sup> °C       | 1.178 - 1.182 |



H301-H311-H330-H350-H314-H226-H317

P301-P310-P303-P361-P353-P305-P351-P338-P320-P361-P405-P501

## Erythrosine B

For Microscopy

C<sub>20</sub>H<sub>6</sub>I<sub>4</sub>Na<sub>2</sub>O<sub>5</sub> MW =879.84**Product code:** 405220025**C.A.S. :** 16423-68-0**25 gr****EINECS :** 240-474-8

|                                    |              |
|------------------------------------|--------------|
| Absorption Maxima                  | 524 – 527 nm |
| A1%; 1cm; λ <sub>max</sub>         | Min 850.0    |
| Ratio α <sub>max</sub> ; P+/- 15nm | 1.15 - 1.55  |
| Loss on drying at 110°C %          | Max 10.0     |

## Ethyl acetate

Analytical Reagent

C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> MW =88.11**Product code:** 205102500**C.A.S. :** 141-78-6**2.5 L****EINECS :** 205-500-4

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99.8   |
| Water (KF) %             | Max 0.05   |
| Residue on Evaporation % | Max 0.001  |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |



H225-H319-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Ethyl acetate

For HPLC &amp; Spectroscopy

C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> MW =88.11**Product code:** 500091000**C.A.S. :** 141-78-6**1 L****EINECS :** 205-500-4

|                                  |                  |
|----------------------------------|------------------|
| Assay %                          | Min 99.8         |
| Non volatile matter %            | Max 0.0005       |
| Acidity (CH <sub>3</sub> COOH) % | Max 0.0005 meq/g |
| Water %                          | Max 0.01         |
| Min Transmission:                |                  |
| At 255 nm %                      | Min 10.0         |
| At 260 nm %                      | Min 50.0         |
| At 263 nm %                      | Min 80.0         |
| At 265 nm %                      | Min 90.0         |
| From 280 nm %                    | Min 98.0         |



H225-H319-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Ethyl formate

For Synthesis

C<sub>3</sub>H<sub>6</sub>O<sub>2</sub> MW =74.08**Product code:** 500210500**C.A.S. :** 109-94-4**500 ml****EINECS :** 203-721-0

|                                               |               |
|-----------------------------------------------|---------------|
| Assay %                                       | Min 98        |
| Ethanol %                                     | Max 2         |
| Density n <sub>D</sub> <sup>20</sup> °C       | 0.919 - 0.921 |
| Refractive Index n <sub>D</sub> <sup>20</sup> | 1.3597        |



H225-H302-H332-H319-H335

P210-P243-P262-P305-P351-P338-P403

## Ethyl methyl ketone

For Synthesis  
 $C_4H_8O$  MW =72.11

**Product code:** 213052500

**C.A.S. :** 78-93-3

**2.5 L**

**EINECS :** 201-159-0

Assay (by GC) %  
Wt.per ml at 20 °C  
Non volatile matter %

Min 99  
0.803 - 0.805 g  
Max 0.005



H225-H319-H336  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Ethylamine solution 70%

For Synthesis  
 $C_2H_7N$  MW =45.09

**Product code:** 500270500

**C.A.S. :** 75-04-7

**500 ml**

**EINECS :** 200-834-7

Assay (by acidimetry) %  
Density (d20 °C/4 °C)

Min 70  
0.803 - 0.806



H225-H319-H335  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Ethylenediamine

For Synthesis  
 $C_2H_8N_2$  MW =60.10

**Product code:** 500570500

**C.A.S. :** 107-15-3

**500 ml**

**EINECS :** 203-468-6

Assay %  
Density (d20 °C/4 °C)  
Boiling point °C  
Chloride (Cl) %  
Iron (Fe) %  
Heavy metals (as Pb) %  
Residue on evaporation %

98 - 101  
0.895 - 0.905  
116 - 118  
Max 0.01  
Max 0.001  
Max 0.001  
Max 0.3



H334-H314-H226-H302-H312-H317  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501A

## EDTA di-Sodium Salt 0.1 M (0.2N)

Standardized solution  
traceable to NIST  
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$  MW =372.24

**Product code:** BVS03002

**C.A.S. :** 6381-92-6

**1 L**

**EINECS :** 205-358-3

## EDTA di-Sodium Salt 0.5 M (1N)

Standardized solution  
traceable to NIST  
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$  MW =372.24

**Product code:** BVS03010

**C.A.S. :** 6381-92-6

**1 L**

**EINECS :** 205-358-3

## Ethylenediamine tetraacetic acid Laboratory Reagent

disodium salt

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$  MW =372.24

**Product code:** 105110500

**C.A.S. :** 6381-92-6

**500 gr**

**EINECS :** 205-358-3

Assay (complexometric) %  
pH (5%, water)  
Insoluble matter in water %  
Chloride (Cl) %  
Sulfate ( $SO_4$ ) %  
Cyanide (CN) %  
Heavy metals (as Pb) %  
Arsenic (As) %  
Iron (Fe) %  
Nitrilotriacetic acid %  
Water %

99 - 101  
4 - 5  
Max 0.01  
Max 0.02  
Max 0.1  
Max 0.001  
Max 0.001  
Max 0.0001  
Max 0.0005  
Max 0.1  
8.7 - 10

## Ethylene glycol

For Synthesis  
 $C_2H_6O_2$  MW=62.07

**Product code:** 205112500

**C.A.S. :** 107-21-1

**2.5 L**

**EINECS :** 203-473-3

Assay %  
Wt. per ml at 20 °C  
Acidity %  
Iron (Fe) %  
Water %

Min 99  
1.112 - 1.115 g  
Max 0.1 ml N  
Max 0.0002  
Max 0.3



H302  
P264-P270-P301-P312-P330-P501

## Euparal

For Microscopy

**Product code:** 500400100

**100 ml**

Appearance  
Colour  
Refractive index (n20 °C/D)  
pH value  
Solubility in Xylol

Clear colorless /light yellow liquid  
Light yellow  
1.525 - 1.545  
6.5 - 7.5  
Ethyl alcohol



H225-H319-H336  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A



**Fehling's reagent No. 1 (A)**

Laboratory Reagent

**Product code:** 514130500**500 ml**Assay (as  $\text{CuSO}_4$ ) %

About 7.0

Sensitivity

Passes test

H410  
P273-P501**Fehling's reagent No. 2 (B)**

Laboratory Reagent

**Product code:** 514120500**500 ml**H314  
P280-P305-P351-P338-P310**Ferriin solution**

Analytical Reagent

**Product code:** 405040100**100ml**

Appearance

Dark red solution

Specific Absorptivity  $A_{1\%1\text{ cm}}$  (max; 0.2% i.e. 0.3 ml dilute to 100ml buffer pH4.0)

2.4 - 2.8

Application test

Conforms

Molarity

0.0025

**Folic acid**

For Biochemistry

 $\text{C}_{19}\text{H}_{19}\text{N}_7\text{O}_6$  MW=441.40**Product code:** 106010010**C.A.S. :** 59-30-3**10 gr****EINECS :** 200-419-0

Assay %

98 - 102

Water %

5 - 8.5

Sulfated ash %

Max 0.2

**Folin & ciocalteu's phenol reagent**

Laboratory Reagent

**Product code:** 106060250**250 ml**

Equivalent acid

About 2.0 N

Wt. per ml at 20 °C

About 1.2 g

H314  
P280-P305-P351-P338-P310**Formaldehyde 37-41° solution**

Analytical Reagent

 $\text{CH}_2\text{O}$  MW =30.03**Product code:** 206002500**C.A.S. :** 50-00-0**2.5 L****EINECS :** 200-001-8

Assay %

37-38

Methanol ( $\text{CH}_3\text{OH}$ ) %

8 - 12

Wt. per ml at 20 °C

1.080 - 1.090 g

Colour

Max 10 APHA

Acidity ( $\text{H.COOH}$ ) %

Max 0.006 meq/g

Residue on ignition %

Max 0.005

Chloride (Cl) %

Max 0.0005

Sulfate ( $\text{SO}_4$ ) %

Max 0.002

Iron (Fe) %

Max 0.0005

Lead (Pb) %

Max 0.0005



H301-H311-H330-H314-H351-H317

P301-P310-P303-P361-P353-P305-P351-P338-P320-P361-P405-P501

**Formaldehyde 37-41° solution**

Laboratory Reagent

 $\text{CH}_2\text{O}$  MW =30.03**Product code:** 206032500/5000**C.A.S. :** 50-00-0**2.5 L****EINECS :** 200-001-8

Assay (acidimetric) %

37 - 41 w/v

Wt. per ml at 20 °C

1.080 - 1.090 g

Content of methanol %

8 - 12 w/w

Acidity %

Max 3 ml N

Ash %

Max 0.02

Chloride (Cl) %

Max 0.001



H301-H311-H330-H314-H351-H317

P301-P310-P303-P361-P353-P305-P351-P338-P320-P361-P405-P501

**Formamide**

Analytical Reagent

 $\text{CH}_3\text{NO}$  MW =45.04**Product code:** 206010500**C.A.S. :** 75-12-7**500 ml****EINECS :** 200-842-0

Assay %

Min 99.5

Wt. per ml at 20 °C

1.132 - 1.135 g

Solidification point °C

2 - 3

Chloride (Cl) %

Max 0.0001

Heavy metals (as Pb) %

Max 0.0001

Iron (Fe) %

Max 0.0001

Water %

Max 0.5

Sulfated ash %

Max 0.005



H360

P201-P202-P281-P308-P313-P405-P501a

**Finding  
US** on the web

www.biochemopharma.fr

## Fuchsin basic C.I.42510

For Microscopy

$C_{20}H_{20}ClN_3$  MW =337.85

**Product code:** 406020025/0100

**C.A.S. :** 632-99-5

**25 gr**

**EINECS :** 211-189-6

**100 gr**

Dye content (by spectrophotometry) %

Min 85

Absorption maxima(in 50% ethanol)

549 - 552 nm

Absorptivity (0.003 g/L, 50% ethanol)

2290 - 2710

Loss on drying (at 135 °C) %

Max 15



H351-H302

P281-P264-P301-P312-P308-P313-P405-P501

## Furfural

For Synthesis

$C_5H_4O_2$  MW =96.09

**Product code:** 406160500

**C.A.S. :** 98-01-1

**500 ml**

**EINECS :** 202-627-7

Assay %

Min 98

Density (d20° /4 °C)

1.158 - 1.160



H301-H330-H226-H351-H312-H315-H319-H335

P280-P305-P351-P338-P309-P310



## Gallic acid monohydrate

Laboratory Reagent  
 $C_7H_6O_5 \cdot H_2O$  MW =188.14

**Product code:** 101300250

**C.A.S. :** 5995-86-8

**250 gr**

**EINECS :** 205-749-9

|                                             |          |
|---------------------------------------------|----------|
| Assay (Acidimetric) %                       | Min 98.0 |
| Melting point (with decomposition) about °C | 260      |
| Loss on drying (at 10°C) %                  | 8 - 10   |
| Sulfated ash %                              | Max 0.1  |



H315-H319-H335

P261-P305-P351-P338-P302-P352-P321-P405-P501A

## Gelatin agar

For Microbiology

**Product code:** DM2190500

**500 gr**

|                                                                                             |                                                            |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Gelatin                                                                                     | 30.000 G/L                                                 |
| Casein enzymic hydrolysate                                                                  | 10.000 G/L                                                 |
| Sodium chloride                                                                             | 10.000 G/L                                                 |
| Agar                                                                                        | 15.000 G/L                                                 |
| Final pH (at 25°C)                                                                          | 7.2 ± 0.2                                                  |
| Reaction                                                                                    | reaction of 6.5% w/v aqueous solution at 25°C pH 7.2 ± 0.2 |
| Prepare the medium per label direction Inoculate and incubate at 35 ± 2°C for 24 - 48 Hours |                                                            |

## Gelatin peptone

For Microbiology

**Product code:** DM1160500

**500 gr**

|                                   |           |
|-----------------------------------|-----------|
| pH (1% w/v aqueous solution) 25°C | 6.7 ± 0.2 |
|-----------------------------------|-----------|

Typical cultural response after 18 - 48 hours at 35 °C

|                                  |              |
|----------------------------------|--------------|
| E. Coli                          | poor to good |
| S.aureus                         | poor to good |
| Indole test (tryptophan content) | - ve         |

## Gelatin powder

For Bacteriology

**Product code:** 507140500

**500 gr**

**C.A.S. :** 9000-70-8

|                                     |            |
|-------------------------------------|------------|
| Loss on drying %                    | Max 12     |
| Sulfated ash %                      | Max 1.5    |
| Sulfur dioxide (SO <sub>2</sub> ) % | Max 0.0002 |
| E.Coli                              | Absent     |
| Liquifiers                          | Absent     |

## Giemsa's stain

For Microscopy

**Product code:** 407190025/0100

**25 gr**

**C.A.S. :** 51811-82-6

**100 gr**

|                                |            |
|--------------------------------|------------|
| Absorption maxima 1 (methanol) | 647-653 nm |
| Absorption maxima 2 (methanol) | 520-526 nm |
| Absorptivity at absorb. max 1  | Min 800.0  |
| Absorptivity at absorb. max 2  | Min 350.0  |
| Loss on drying (at 105 °C) %   | Max 10     |

## Glass wool

**Product code:** 407200250

**C.A.S. :** 65997-19-3

**250 gr**

|                  |           |
|------------------|-----------|
| Soluble in HCl % | Max.1.0   |
| Iron (Fe) %      | Max.0.005 |
| Lead (Pb) %      | Max.0.005 |

## D-(+)-Glucose anhydrous

Analytical Reagent

$C_6H_{12}O_6$  MW =180.16

**Product code:** 507050500

**C.A.S. :** 50-99-7

**500 gr**

**EINECS :** 200-075-1

|                              |              |
|------------------------------|--------------|
| Specific rotation °C         | +52.5 to +53 |
| Lead (Pb) %                  | Max 0.001    |
| Copper (Cu) %                | Max 0.0001   |
| Zinc (Zn) %                  | Max 0.0001   |
| Cadmium (Cd) %               | Max 0.0001   |
| Maltose %                    | Max 0.2      |
| Sulfated ash %               | Max 0.05     |
| Water (KF) %                 | Max 0.05     |
| Chloride (Cl) %              | Max 0.005    |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01     |
| Heavy metals (as Pb) %       | Max 0.0005   |
| Arsenic (As) %               | Max 0.00004  |

## D-(+)-Glucose anhydrous

Laboratory Reagent

$C_6H_{12}O_6$  MW =180.16

**Product code:** 507120500/1000

**C.A.S. :** 50-99-7

**500 gr**

**1 kg**

**EINECS :** 207-757-8

|                                                        |                  |
|--------------------------------------------------------|------------------|
| Specific rotation (20/D,10% water, on dried substance) | +52.5° to +53.2° |
| pH (10%; water)                                        | 5.7 - 7.0        |
| Chloride (Cl) %                                        | Max 0.0125       |
| Maltose %                                              | Max 0.2          |
| Heavy metals (as Pb) %                                 | Max 0.001        |
| Arsenic (As) %                                         | Max 0.0001       |
| Lead (Pb) %                                            | Max 0.00005      |
| Calcium (Ca) %                                         | Max 0.02         |
| Sulfate (SO <sub>4</sub> ) %                           | Max 0.02         |
| Water (KF) %                                           | Max 0.2          |
| Sulfated ash %                                         | Max 0.1          |

## D-(+)-Glucose monohydrate

Analytical Reagent

$C_6H_{12}O_6 \cdot H_2O$  MW =198.17

**Product code:** 507060500

**C.A.S. :** 5996-10-1

**500 gr**

**EINECS :** 200-075-1

|                                                        |                  |
|--------------------------------------------------------|------------------|
| Specific rotation (20/D,10% water, on dried substance) | +52.6 to +53.2°C |
| Chloride (Cl) %                                        | Max 0.005        |
| Sulfate (SO <sub>4</sub> ) %                           | Max 0.01         |
| Sulfite (as SO <sub>2</sub> )                          | Passes test      |
| Water %                                                | 7.5 - 9.5        |
| Heavy metals (as Pb) %                                 | Max 0.001        |
| Maltose %                                              | Max 0.02         |
| Suitability for microbiology                           | Passes test      |
| Sulfated ash %                                         | Max 0.05         |
| Arsenic (As) %                                         | Max 0.00005      |

## L-Glutamic acid

For Biochemistry  
C<sub>5</sub>H<sub>9</sub>NO<sub>4</sub> MW =147.13

**Product code:** 507070100

**C.A.S. :** 56-86-0

**100 gr**

**EINECS :** 200-293-7

|                                                                          |                  |
|--------------------------------------------------------------------------|------------------|
| Assay (acidimetric) %                                                    | Min 99           |
| Specific rotation (20/D, 100 g/l HCl 1 mol/l Calc. on dried substance) % | +30.5° to +32.5° |
| Chloride (Cl) %                                                          | Max 0.02         |
| Sulfate (SO <sub>4</sub> ) %                                             | Max 0.03         |
| Heavy metals (as Pb) %                                                   | Max 0.001        |
| Iron (Fe) %                                                              | Max 0.001        |
| Ammonium (NH <sub>4</sub> ) %                                            | Max 0.02         |
| Ninhydrin positive substances (TLC) %                                    | Max 0.5          |
| Sulfated ash (at 600 °C) %                                               | Max 0.1          |
| Loss on drying (at 105 °C) %                                             | Max 0.5          |

## L-Glutamic acid mono sodium salt

Laboratory Reagent  
C<sub>5</sub>H<sub>8</sub>NNaO<sub>4</sub>·H<sub>2</sub>O MW =187.13

**Product code:** 507270100

**C.A.S. :** 6106-04-3

**100 gr**

**EINECS :** 200-293-7

|                               |            |
|-------------------------------|------------|
| Assay %                       | Min 99     |
| Chloride (Cl) %               | Max 0.02   |
| Ammonium (NH <sub>4</sub> ) % | Max 0.01   |
| Arsenic (As) %                | Max 0.0003 |
| Lead (Pb) %                   | Max 0.001  |
| Copper (Cu) %                 | Max 0.001  |
| Zinc (Zn) %                   | Max 0.0001 |
| Water %                       | Max 9.2-10 |

## L-Glutamine

For Biochemistry  
C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub> MW =146.15

**Product code:** 512070025

**C.A.S. :** 56-85-9

**25 gr**

**EINECS :** 200-292-1

|                                                    |                  |
|----------------------------------------------------|------------------|
| Assay (HClO <sub>4</sub> titration) %              | Min 99           |
| Specific rotation                                  | +32.3° to +33.3° |
| Heavy metals (as Pb) %                             | Max 0.001        |
| Ammonium (NH <sub>4</sub> ) %                      | Max 0.1          |
| Foreign amino acids %                              | Max 0.3          |
| Other ninhydrin positive substances (as glycine) % | Max 0.1          |

## Glutaraldehyde solution 25%

Laboratory Reagent  
C<sub>5</sub>H<sub>8</sub>O<sub>2</sub> MW =100.12

**Product code:** 507130500

**C.A.S. :** 111-30-8

**500 ml**

**EINECS :** 203-856-5

|                                         |               |
|-----------------------------------------|---------------|
| Assay %                                 | 23 - 25       |
| Density n <sub>D</sub> <sup>20</sup> °C | 1.055 - 1.065 |



H301-H334-H314-H400-H317  
P260-P301-P301-P310-P303-P361-P353-P305-P351-P338-P408-P501a

## Glycerol

Analytical Reagent  
C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> MW =92.09

**Product code:** 201191000/2500

**C.A.S. :** 56-81-5

**1 L**

**2.5 L**

**EINECS :** 200-289-5

|                                                                  |                                  |
|------------------------------------------------------------------|----------------------------------|
| Assay (on anhydrous basis) %                                     | Min 99.5                         |
| Fatty acids and ester                                            | Max 1.0 ml of 0.5N NaOH consumed |
| Chloride (Cl) %                                                  | Max 0.001                        |
| Sulfate (SO <sub>4</sub> ) %                                     | Max 0.002                        |
| Chlorinated compounds %                                          | Max 0.003                        |
| Moisture %                                                       | Max 0.5                          |
| Heavy metals %                                                   | Max 0.0005                       |
| Residue on ignition %                                            | Max 0.01                         |
| Specific gravity at 25 °C                                        | Min 1.249                        |
| Total impurities (Chromatographic including Diethylene glycol) % | Max 1.0                          |
| Individual impurities %                                          | Max 0.1                          |

## Glycerol

Laboratory Reagent  
C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> MW =92.09

**Product code:** 201061000/2500

**C.A.S. :** 56-81-5

**1 L**

**2.5 L**

**EINECS :** 200-289-5

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| Assay %                      | 98 - 101                                                                                         |
| Refractive index at 20 °C    | 1.470 - 1.475                                                                                    |
| Acidity                      | Max 0.2 ml of 0.1 N NaOH required for 50 ml of 50% w/v solution                                  |
| Alkalini                     | NIL                                                                                              |
| Heavy metals (as Pb) %       | Max 0.0005                                                                                       |
| Iron (Fe) %                  | Max 0.0004                                                                                       |
| Chloride (Cl) %              | Max 0.0025                                                                                       |
| Sulfate (SO <sub>4</sub> ) % | Max 0.0030                                                                                       |
| Ester                        | Max 8.0 ml of 0.1M HCl required to decolorise the 50 ml of 50% w/v Solution of glycerin in water |
| Sulfated ash %               | Max 0.01                                                                                         |
| Water %                      | Max 2                                                                                            |

## Glycine

Analytical Reagent  
NH<sub>2</sub>CH<sub>2</sub>COOH MW =75.07

**Product code:** 500660500

**C.A.S. :** 56-40-6

**500 gr**

**EINECS :** 200-272-2

|                               |            |
|-------------------------------|------------|
| Assay %                       | Min 99     |
| pH of 5% solution             | 5.9 - 6.3  |
| Insoluble matter in water %   | Max 0.005  |
| Chloride (Cl) %               | Max 0.003  |
| Heavy metals (as Pb) %        | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) %  | Max 0.002  |
| Loss on drying %              | Max 0.2    |
| Residue on ignition %         | Max 0.05   |
| Ammonium (NH <sub>4</sub> ) % | Max 0.005  |
| Iron (Fe) %                   | Max 0.001  |
| Arsenic (As) %                | Max 0.0001 |
| Copper (Cu) %                 | Max 0.0005 |
| Nickel (Ni) %                 | Max 0.0005 |
| Lead (Pb) %                   | Max 0.0005 |

## Glycine

For Biochemistry  
 $\text{NH}_2\text{CH}_2\text{COOH}$  MW =75.07

**Product code:** 500460500

**C.A.S. :** 56-40-6

**500 gr**

**EINECS :** 200-272-2

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 98.5  |
| Water %                     | Max 0.2   |
| Sulfated ash %              | Max 0.05  |
| Iron (Fe) %                 | Max 0.003 |
| Heavy metals (as Pb) %      | Max 0.01  |
| Chloride (Cl) %             | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.005 |

## Glycolic acid (65 % in water)

Laboratory Reagent  
 $\text{C}_2\text{H}_4\text{O}_3$  MW =76.05

**Product code:** 201110500

**C.A.S. :** 79-14-1

**500 ml**

**EINECS :** 200-854-6

|                             |                 |
|-----------------------------|-----------------|
| Assay (acidimetric) %       | Min About 65.0  |
| Wt.per ml at 20°C           | 1.257 - 1.264 g |
| Refractive Index $n_D^{20}$ | 20 Abt.1.4050   |



H314-H318-H302-H332  
P280-P305-P351-P338-P309-P310

## Glyoxal 40%

Laboratory Reagent  
 $\text{C}_2\text{H}_2\text{O}_2$  MW =58.04

**Product code:** 507220500

**C.A.S. :** 107-22-2

**500 ml**

**EINECS :** 203-474-9

|                           |               |
|---------------------------|---------------|
| Assay (Oxime titration) % | ~40           |
| Density (d20 °C/4 °C)     | 1.268 - 1.271 |



H341-H315-H319-H317-H333  
P261-P280-P281-P305-P351-P338-P405-P501A

## Guanidine hydrochloride

For Synthesis  
 $\text{CH}_5\text{N}_3\text{HCl}$  MW =95.53

**Product code:** 507040100

**C.A.S. :** 50-01-1

**100 gr**

**EINECS :** 200-002-3

|                   |             |
|-------------------|-------------|
| Assay %           | Min 99      |
| Melting point °C  | 182 - 185   |
| pH (10% in water) | 4.5 - 5.5   |
| Chloride (Cl) %   | 36.1 - 37.1 |



H302-H315-H319  
P280-P305-P351-P338-P302-P352-P321-P362-P501



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## Heart infusion agar

For Microbiology

**Product code:** DM2530500

**500 gr**

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Beef heart, infusion from | 500.000 G/L                                                |
| Tryptose                  | 10.000 G/L                                                 |
| Sodium chloride           | 5.000 G/L                                                  |
| Agar                      | 15.000 G/L                                                 |
| Final pH (at 25°C)        | 7.4 ± 0.2                                                  |
| pH range                  | 7.20 - 7.60                                                |
| Reaction                  | reaction of 4.0% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |

## n-Heptane

Analytical Reagent

C<sub>7</sub>H<sub>16</sub> MW =100.21

**Product code:** 220461000/2500

**1 L**

**C.A.S. :** 142-82-5

**2.5 L**

**EINECS :** 205-563-8

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99.0   |
| Water (KF) %             | Max 0.02   |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Residue on Evaporation % | Max 0.001  |
| Sulfur Compounds %       | Max 0.001  |



H334-H314-H226-H302-H312-H317  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501a

## n-Heptane

For HPLC & Spectroscopy

C<sub>7</sub>H<sub>16</sub> MW =100.21

**Product code:** 500081000

**1 L**

**C.A.S. :** 142-82-5

**EINECS :** 205-563-8

|                                                     |            |
|-----------------------------------------------------|------------|
| Assay %                                             | Min 99     |
| Non volatile matter %                               | Max 0.0005 |
| Acidity (CH <sub>3</sub> COOH) %                    | Max 0.001  |
| Water %                                             | Max 0.01   |
| Maximum absorbance in 1.0 cm cell against water at: |            |
| At 200 nm                                           | 1.0        |
| At 210 nm                                           | 0.4        |
| At 220 nm                                           | 0.15       |
| At 230 nm                                           | 0.05       |
| At 250 nm                                           | 0.01       |
| At 270 nm                                           | 0.01       |
| Boiling point °C                                    | 97 - 99    |
| Refractive index                                    | 1.387      |
| Viscosity(20°C)                                     | 0.41 cP    |
| Density (d <sub>20</sub> deg/4 °C)                  | 0.683      |
| Flash point °C                                      | -4         |



H334-H314-H226-H302-H312-H317  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501a

## n-Hexane 99%

Analytical Reagent

C<sub>6</sub>H<sub>14</sub> MW =86.18

**Product code:** 208122500

**C.A.S. :** 110-54-3

**2.5 L**

**EINECS :** 203-777-6

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99.0   |
| Water %                  | Max 0.02   |
| Residue on Evaporation % | Max 0.001  |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Sulfur Compounds %       | Max 0.001  |



H225-H304-H361-H373-H315-H336-H411  
P210-P260-P301-P310-P303-P361-P353-P405-P501A

## n-Hexane 99%

For HPLC & Spectroscopy

C<sub>6</sub>H<sub>14</sub> MW =86.18

**Product code:** 208061000

**C.A.S. :** 110-54-3

**1 L**

**EINECS :** 203-777-6

|                                                  |            |
|--------------------------------------------------|------------|
| Assay (GC) %                                     | Min 95     |
| Non volatile matter %                            | Max 0.0001 |
| Acidity (CH <sub>3</sub> COOH) %                 | Max 0.001  |
| Water %                                          | Max 0.01   |
| Maximum absorbance in 1.0 cm cell against water: |            |
| At 200 nm                                        | 1.00       |
| At 210 nm                                        | 0.3        |
| At 220 nm                                        | 0.1        |
| At 230 nm                                        | 0.05       |
| At 245 - 400 nm                                  | 0.01       |



H225-H304-H361-H373-H315-H336-H411  
P210-P260-P301-P310-P303-P361-P353-P405-P501A

## n-Hexane 95%

General Purpose Reagent

C<sub>6</sub>H<sub>14</sub> MW =86.18

**Product code:** 208022500

**C.A.S. :** 110-54-3

**2.5 L**

**EINECS :** 203-777-6

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 95.0   |
| Water (KF) %             | Max 0.05   |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Residue on Evaporation % | Max 0.005  |



H225-H304-H361-H373-H315-H336-H411  
P210-P260-P301-P310-P303-P361-P353-P405-P501A

## n-Hexanol

For Synthesis

C<sub>6</sub>H<sub>14</sub>O MW =102.18

**Product code:** 203270500

**C.A.S. :** 111-27-3

**500 ml**

**EINECS :** 203-852-3

|                                   |               |
|-----------------------------------|---------------|
| Assay (GC,area %) %               | Min 98        |
| Density (d <sub>20</sub> °C/4 °C) | 0.818 - 0.819 |
| Identity (IR)                     | Conforms      |



H226-H302-H313  
P210-P280-P240-P303-P361-P353-P403-P235-P501A



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## L-Histidine

For Biochemistry

$C_6H_9N_3O_2$  MW =155.16

**Product code:** 508100025

**C.A.S. :** 71-00-1

**25 gr**

**EINECS :** 200-745-3

Assay (HClO<sub>4</sub> titration) %

Min 99

Heavy metals (as Pb) %

Max 0.001

Ammonium (NH<sub>4</sub>) %

Max 0.01

Foreign amino acids %

Max 0.3

## L-Histidine monohydrochloride monohydrate

For Biochemistry

$C_6H_9N_3O_2 \cdot HCl \cdot H_2O$  MW =209.63

**Product code:** 508120025

**C.A.S. :** 5934-29-2

**25 gr**

**EINECS :** 211-438-9

Assay (argentometric, on anhydrous substances) %

Min 99

Specific rotation

+8.5° to +9.5°

Heavy metals (as Pb) %

Max 0.001

Ammonium (NH<sub>4</sub>) %

Max 0.01

Foreign amino acids %

Max 0.3

Other ninhydrin-positive substances (as glycine) %

Max 0.1

## Hydrazine hydrate 80%

Analytical Reagent

$N_2H_5OH$  MW =50.06

**Product code:** 508150500

**C.A.S. :** 10217-52-4

**500 ml**

**EINECS :** 206-114-9

Assay %

Min 80

Density (d<sub>20</sub> °C/4 °C)

1.028 - 1.030

Chloride (Cl) %

Max 0.005

Sulfate (SO<sub>4</sub>) %

Max 0.01



H301-H310-H330-H317-H350-H314-H318-H400-H410-H227

P210-P301-P310-P303-P361-P353-P304-P340-P305-P351

P338-P320-P330-P361-P405-P501A

## Hydrobromic acid 48%

Analytical Reagent

HBr MW =80.91

**Product code:** 108010500

**C.A.S. :** 10035-10-6

**500 ml**

**EINECS :** 233-113-0

Assay %

47 - 49

Arsenic (As) %

Max 0.00005

Chloride (Cl) %

Max 0.05

Heavy metals (as Pb) %

Max 0.0005

Iodide (I)

Passes test (approx.0.003%)

Iron (Fe) %

Max 0.0001

Phosphate (PO<sub>4</sub>) %

Max 0.003

Residue on Ignition %

Max 0.003

Selenium (Se)

Passes test (Approx.0.000001 ppm)

Sulfate and Sulfite (as SO<sub>4</sub>) %

Max 0.003



H314-H335

P280-P305-P351-P338-P309-P310-P403-P233

## Hydrochloric acid 0.1 M (0.1N)

Standardized solution

traceable to NIST

HCl MW =36.46

**Product code:** BVS04010

**C.A.S. :** 7647-01-0

**1 L**

**EINECS :** 231-595-7

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous)

is traceable to NIST Standard Reference Material

Tris(hydroxymethyl)amino methane, number 723e.



H314-H335

P260-P301-P330-P331-P361-P353-P305-P351-P338-P405-P501a

## Hydrochloric acid 1 M (1N)

Standardized solution

traceable to NIST

HCl MW =36.46

**Product code:** BVS04010

**C.A.S. :** 7647-01-0

**1 L**

**EINECS :** 231-595-7

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous)

is traceable to NIST Standard Reference Material

Tris(hydroxymethyl)amino methane, number 723e.



H314-H335

P260-P301-P330-P331-P361-P353-P305-P351-P338-P405-P501a

## Hydrochloric acid 2 M (2N)

Standardized solution

traceable to NIST

HCl MW =36.46

**Product code:** BVS04020

**C.A.S. :** 7647-01-0

**1 L**

**EINECS :** 231-595-7

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous)

is traceable to NIST Standard Reference Material

Tris(hydroxymethyl)amino methane, number 723e.



H314-H335

P260-P301-P330-P331-P361-P353-P305-P351-P338-P405-P501a



## Hydrochloric acid 35-38%

Analytical Reagent  
HCl MW =36.46

**Product code:** 125002500/5000

**C.A.S. :** 7647-01-0

**EINECS :** 231-595-7

2.5 L  
5 L

|                               |              |
|-------------------------------|--------------|
| Assay %                       | Min 35.4     |
| Non volatile matter %         | Max 0.001    |
| Free chlorine (Cl) %          | Max 0.0002   |
| Sulfate (SO <sub>4</sub> ) %  | Max 0.0005   |
| Sulfite (SO <sub>3</sub> ) %  | Max 0.0001   |
| Aluminium (Al) %              | Max 0.00005  |
| Ammonium (NH <sub>4</sub> ) % | Max 0.0003   |
| Arsenic (As) %                | Max 0.000002 |
| Copper (Cu) %                 | Max 0.00001  |
| Iron (Fe) %                   | Max 0.00004  |
| Lead (Pb) %                   | Max 0.00005  |



H314-H335

P260-P301-P330-P361-P353-P305-P351-P338-P405-P501a

## Hydrofluoric acid 48%

Analytical Reagent  
HF MW =20.01

**Product code:** 101310500

**C.A.S. :** 7664-39-3

**EINECS :** 231-634-8

500 ml

|                                          |              |
|------------------------------------------|--------------|
| Assay (Titration by NaOH) %              | 48.0-51.0    |
| Sulfate and sulfite %                    | Max 0.0005   |
| Phosphate (PO <sub>4</sub> ) %           | Max 0.0001   |
| Fluorosilicic acid (SiF <sub>6</sub> ) % | Max 0.01     |
| Residue on ignition %                    | Max 0.0005   |
| Chloride (Cl) %                          | Max 0.0005   |
| Iron (Fe) %                              | Max 0.0001   |
| Heavy metal (as Pb) %                    | Max 0.00005  |
| Arsenic (As) %                           | Max 0.000005 |
| Copper (Cu) %                            | Max 0.00001  |



H300-H310-H330-H314

P260-P301+P310-P303-P361-P353-P304-P340-P305

P351-P338-P320-P330-P361-P405-P501A

## Hydrochloric acid 35-38%

Laboratory Reagent  
HCl MW =36.46

**Product code:** 125012500/5000

**C.A.S. :** 7647-01-0

**EINECS :** 231-595-7

2.5 L  
5 L

|                       |              |
|-----------------------|--------------|
| Assay (acidimetric) % | 35           |
| Wt. per ml at 20 °C   | About 1.18 g |
| Non volatile matter % | Max 0.01     |
| Free chloride (Cl) %  | Max 0.0005   |
| Sulfuric acid %       | Max 0.02     |
| Iron (Fe) %           | Max 0.001    |
| Lead (Pb) %           | Max 0.0005   |



H314-H335

P260-P301-P330-P361-P353-P305-P351-P338-P405-P501a

## Hydrogen peroxide 30%

Analytical Reagent  
H<sub>2</sub>O<sub>2</sub> MW =34.02

**Product code:** 500141000

**C.A.S. :** 7722-84-1

**EINECS :** 231-765-0

1 L

|                                                   |                         |
|---------------------------------------------------|-------------------------|
| Appearance                                        | colorless, clear liquid |
| Assay %                                           | Min 28                  |
| Free acids (as H <sub>2</sub> SO <sub>4</sub> ) % | Max 0.01                |
| Residue on Evaporation %                          | Max 0.01                |
| Nitrogen (N) %                                    | Max 0.005               |
| Chlorides (Cl) %                                  | Max 0.001               |
| Phosphates (PO <sub>4</sub> ) %                   | Max 0.003               |
| Sulfates (SO <sub>4</sub> ) %                     | Max 0.001               |
| Arsenic (As) %                                    | Max 0.00005             |
| Zinc (Zn) %                                       | Max 0.0002              |
| Cadmium (Cd) %                                    | Max 0.0002              |
| Copper (Cu) %                                     | Max 0.0002              |
| Lead (Pb) %                                       | Max 0.0002              |
| Iron (Fe) %                                       | Max 0.00005             |



H302-H318

P280-P305-P351-P338-P313

## Hydrofluoric acid 40%

Analytical Reagent  
HF MW =20.01

**Product code:** 101400500

**C.A.S. :** 7664-39-3

**EINECS :** 231-634-8

500 ml

|                                      |              |
|--------------------------------------|--------------|
| Assay %                              | Min 40       |
| Non volatile matter %                | Max 0.0005   |
| Chloride (Cl) %                      | Max 0.0005   |
| Phosphate (PO <sub>4</sub> ) %       | Max 0.0001   |
| Sulfate (SO <sub>4</sub> ) %         | Max 0.0005   |
| Sulfite (SO <sub>3</sub> ) %         | Max 0.0005   |
| Arsenic (As) %                       | Max 0.000005 |
| Cadmium (Cd) %                       | Max 0.00001  |
| Copper (Cu) %                        | Max 0.00001  |
| Iron (Fe) %                          | Max 0.00005  |
| Nickel (Ni) %                        | Max 0.00001  |
| Lead (Pb) %                          | Max 0.00001  |
| Zinc (Zn) %                          | Max 0.00001  |
| Fluorosilicate (SiF <sub>6</sub> ) % | Max 0.005    |



H300-H310-H330-H314

P260-P301+P310-P303-P361-P353-P304-P340-P305

P351-P338-P320-P330-P361-P405-P501A

## Hydroxylamine hydrochloride

Analytical Reagent  
H<sub>2</sub>CINO MW =69.49

**Product code:** 101320100

**C.A.S. :** 5470-11-1

**EINECS :** 226-798-2

100 gr

|                                             |                |
|---------------------------------------------|----------------|
| Assay %                                     | Min 99.0       |
| pH (5% in water)                            | 2.5 - 3.5      |
| Sulfate (SO <sub>4</sub> ) %                | Max 0.002      |
| Heavy metals (as Pb) %                      | Max 0.0005     |
| Copper (Cu) %                               | Max 0.001      |
| Iron (Fe) %                                 | Max 0.0005     |
| Ammonium (NH <sub>4</sub> ) %               | Max 0.1        |
| Residue on ignition (as SO <sub>4</sub> ) % | Max 0.01       |
| Titrate free acid                           | Max 0.25 meq/g |



H351-H373-H290-H400-H302-H312-H317-H315-H319

P280H-P273-P406

## 8-Hydroxyquinoline

Laboratory Reagent  
 $C_8H_7NO$  MW =145.16

**Product code:** 101390100

**C.A.S. :** 148-24-3

**100 gr**

**EINECS :** 205-711-1

|                              |              |
|------------------------------|--------------|
| Assay %                      | 99.0 – 101.0 |
| Melting point °C             | 72.5 to 76   |
| Sulfated ash %               | Max 0.1      |
| Chloride (Cl) %              | Max 0.01     |
| Sulfate (SO <sub>4</sub> ) % | Max 0.02     |



H341-H302

P281-P264-P301-P312-P308-P313-P405-P501A

## Imidazole

Analytical Reagent  
 $C_3H_4N_2$  MW =68.08

**Product code:** 509030100

**C.A.S. :** 288-32-4

**100 gr**

**EINECS :** 206-019-2

|                                       |            |
|---------------------------------------|------------|
| Assay (HClO <sub>4</sub> titration) % | Min 99.5   |
| pH (5% in water)                      | 9.5 - 10.5 |
| Melting point °C                      | 88 - 90    |
| Iron (Fe) %                           | Max 0.0005 |
| Sulfated ash %                        | Max 0.1    |
| Water %                               | Max 0.2    |



H314-H361-H302

P280-P303-P361-P353-P305-P351-P338-P310

## Immersion oil

For Microscopy

**Product code:** 509010030

**30 ml**

|                          |               |
|--------------------------|---------------|
| Refractive index at 20°C | 1.515 - 1.526 |
| Wt.per ml at 20°C        | About 1.21g   |



H315-H319-H335

P261-P305-P351-P338

## Indigo carmine C.I.73015

For Microscopy

$C_{16}H_8N_2Na_2O_6S_2$  MW =466.36

**Product code:** 403090025

**C.A.S. :** 860-22-0

**25 gr**

**EINECS :** 212-728-8

|                                                                          |              |
|--------------------------------------------------------------------------|--------------|
| Absorption maxima ( $\lambda$ max.in water)                              | 608 - 612 nm |
| Specific Absorptivity (A 1%/1cm max; 0.001 %;water)                      | 380 - 475    |
| Loss on drying (at 110 °C)Max 10% Suitability for microscopy passes test |              |

## Indole nitrate medium (tryptone nitrate medium)

For Microbiology

**Product code:** DM2200500

**500 gr**

|                                                                                             |                                                             |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Casein enzymic hydrolysate                                                                  | 20.000 G/L                                                  |
| Disodium phosphate                                                                          | 2.000 G/L                                                   |
| Dextrose                                                                                    | 1.000 G/L                                                   |
| Potassium nitrate                                                                           | 1.000 G/L                                                   |
| Agar                                                                                        | 1.000 G/L                                                   |
| Final pH (at 25°C)                                                                          | 7.2 ± 0.2                                                   |
| Reaction                                                                                    | reaction of 2.5 % w/v aqueous solution at 25°C pH 7.2 ± 0.2 |
| Prepare the medium per label direction Inoculate and incubate at 35 ± 2°C for 18 - 48 Hours |                                                             |



**Finding  
US** on the web

[www.biochemopharma.fr](http://www.biochemopharma.fr)

## Iodine 0.5 M (1N)

Standardized solution  
traceable to NIST  
 $I_2$  MW =253.81

**Product code:** BVS05010

**C.A.S. :** 7553-56-2

**1 L**

**EINECS :** 231-442-4

Tolerance +/- 0.0005M  
Appearance Brown solution  
The standardisation material (sodium thiosulphate) is a secondary reference material traceable to NIST Standard Reference Material arsenic trioxide, number 83d.



H311-H314-H318-H400-H332  
P260-P303-P361-P353-P305-P351-P338-P361-P405-P501

## Iodine resublimed

Analytical Reagent  
 $I_2$  MW =253.81

**Product code:** 500590100/0250

**C.A.S. :** 7553-56-2

**100 gr**

**250 gr**

**EINECS :** 231-442-4

Assay (oxidimetric) % Max 99.5  
Non volatile matter % Max 0.1  
Bromine & chlorine (Cl) % Max 0.01



H311-H314-H318-H400-H332  
P260-P303-P361-P353-P305-P351-P338-P361-P405-P501

## Iron powder reduced

Laboratory Reagent  
Fe MW =55.85

**Product code:** 309161000

**C.A.S. :** 7439-89-6

**1 kg**

**EINECS :** 231-096-4

Assay % Min 99.5  
Lead (Pb) % Max 0.002  
Insoluble in HCl % Max 0.05  
Arsenic (As) % Max 0.0005  
Copper (Cu) % Max 0.005  
Manganese (Mn) % Max 0.05  
Sulfide (S) % Max 0.02  
Nickel (Ni) % Max 0.05  
Zinc (Zn) % Max 0.01



H228-H319-H335  
P210-P241-P261-P305-P351-P338-P405-P501

## Iron(II) Chloride hydrate

Laboratory Reagent  
 $FeCl_2 \cdot xH_2O$  MW =126.75+aq.

**Product code:** 209000500

**C.A.S. :** 13478-10-9

**500 gr**

**EINECS :** 231-843-4

Assay % Min 98  
Sulfate ( $SO_4$ ) % Max 0.03  
Arsenic (As) % Max 0.0005  
Copper (Cu) % Max 0.005  
Lead (Pb) % Max 0.005



H314-H302  
P280-P305-P351-P338-P309-P310

## Iron (III) Chloride hexahydrate

Analytical Reagent  
 $FeCl_3 \cdot 6H_2O$  MW =270.30

**Product code:** 309030500

**C.A.S. :** 10025-77-1

**500 gr**

**EINECS :** 231-729-4

Assay % 99.0 -102.0  
Insoluble matter % Max 0.01  
Nitrate ( $NO_3$ ) % Max 0.01  
Phosphate ( $PO_4$ ) % Max 0.01  
Sulfate ( $SO_4$ ) % Max 0.01  
Copper (Cu) % Max 0.003  
Iron (II) (Fe) % Max 0.002  
Calcium (Ca) % Max 0.01  
Arsenic (As) % Max 0.0005  
Zinc (Zn) % Max 0.003  
Magnesium (Mg) % Max 0.005  
Sodium (Na) % Max 0.05  
Potassium (K) % Max 0.005



H314-H302  
P280-P305-P351-P338-P309-P310

## Iron (III) Chloride hexahydrate

Laboratory Reagent  
 $FeCl_3 \cdot 6H_2O$  MW =270.30

**Product code:** 309060500

**C.A.S. :** 10025-77-1

**500 gr**

**EINECS :** 231-729-4

Assay (iodometric) % Min 99  
Substances insoluble in HCl % Max 0.05  
Free acid (as HCl) % Max 0.2  
Free chlorine (Cl) % Max 0.005  
Sulfate ( $SO_4$ ) % Max 0.05  
Total Nitrogen (N) % Max 0.005  
Heavy metals (as Pb) % Max 0.005  
Arsenic (As) % Max 0.001  
Substances not precipitated by  $NH_3$  (as  $SO_4$ ) % Max 0.1



H314-H302  
P280-P305-P351-P338-P309-P310

## Iron (III) nitrate nonahydrate

Laboratory Reagent  
 $Fe(NO_3)_3 \cdot 9H_2O$  MW =404.00

**Product code:** 309150500

**C.A.S. :** 7782-61-8

**500 gr**

**EINECS :** 233-899-5

Assay (oxidimetric) % Min 98  
Chloride (Cl) % Max 0.01  
Sulfate ( $SO_4$ ) % Max 0.02  
Ferrous Iron (Fe) % Max 0.01  
Manganese (Mn) % Max 0.02



H272-H315-H319  
P221-P210-P305-P351-P338-P302-P352-P321-P501

## Iron (III) oxide red

Laboratory Reagent  
 $\text{Fe}_2\text{O}_3$  MW =159.69

**Product code:** 309020500

**C.A.S. :** 1309-37-1

**500 gr**

**EINECS :** 215-168-2

|                               |          |
|-------------------------------|----------|
| Assay %                       | 95 - 98  |
| Loss on ignition %            | Max 0.5  |
| Water soluble %               | Max 1.0  |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.3  |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.5  |
| Manganese (Mn) %              | Max 0.25 |



H315-H319-H335

P261-P302-P352-P305-P351-P338-P321-P405-P501a

## Iron (II) sulfate heptahydrate

Analytical Reagent  
 $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$  MW =278.01

**Product code:** 309210500

**C.A.S. :** 7782-63-0

**500 gr**

**EINECS :** 231-753-5

|                               |           |
|-------------------------------|-----------|
| Assay %                       | 99.0      |
| Ferric ion ( $\text{Fe}$ ) %  | Max 0.1   |
| Copper ( $\text{Cu}$ ) %      | Max 0.005 |
| Insoluble matter %            | Max 0.01  |
| pH (5% water)                 | 3.0 - 4.0 |
| Chloride ( $\text{Cl}$ ) %    | Max 0.001 |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.001 |
| Manganese (Mn) %              | Max 0.05  |
| Zinc ( $\text{Zn}$ ) %        | Max 0.005 |
| Calcium ( $\text{Ca}$ ) %     | Max 0.005 |
| Magnesium ( $\text{Mg}$ ) %   | Max 0.002 |
| Potassium ( $\text{K}$ ) %    | Max 0.002 |
| Sodium ( $\text{Na}$ ) %      | Max 0.02  |



H302-H315-H319

P301-P310-P315

## Iron (II) sulfate heptahydrate

Laboratory Reagent  
 $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$  MW =278.01

**Product code:** 309230500

**C.A.S. :** 7782-63-0

**500 gr**

**EINECS :** 231-753-5

|                            |              |
|----------------------------|--------------|
| Assay %                    | 98.5 - 104.5 |
| pH (5% water)              | 3.0 - 4.0    |
| Chloride ( $\text{Cl}$ ) % | Max 0.01     |
| Heavy metals (as Pb) %     | Max 0.005    |
| Arsenic ( $\text{As}$ ) %  | Max 0.0002   |
| Lead ( $\text{Pb}$ ) %     | Max 0.001    |
| Iron (III) Salts (as Fe) % | Max 0.2      |
| Copper ( $\text{Cu}$ ) %   | Max 0.005    |
| Manganese (Mn) %           | Max 0.1      |
| Mercury ( $\text{Hg}$ ) %  | Max 0.0003   |
| Zinc ( $\text{Zn}$ ) %     | Max 0.05     |



H302-H315-H319

P301-P310-P315

## Iron (II) sulfide fused sticks

Laboratory Reagent  
 $\text{FeS}$  MW =87.91

**Product code:** 309241000

**C.A.S. :** 1317-37-9

**1 kg**

**EINECS :** 215-268-6

|                  |                     |
|------------------|---------------------|
| Appearance       | Bluish black sticks |
| Sulfide Sulfur % | Min 29              |

## Iso-amyl alcohol

Analytical Reagent  
 $\text{C}_5\text{H}_{12}\text{O}$  MW =88.15

**Product code:** 209022500

**C.A.S. :** 123-51-5

**2.5 L**

**EINECS :** 204-633-5

|                                            |             |
|--------------------------------------------|-------------|
| Total assay of isomers %                   | Min 99      |
| Free acid (as $\text{CH}_3\text{COOH}$ ) % | Max 0.005   |
| Density ( $d_{20/4}^\circ\text{C}$ ) %     | 0.810-0.812 |
| Non volatile substances %                  | Max 0.01    |
| Water %                                    | Max 0.2     |



H226-H332-H335-H066

P210-P241-P261-P303-P361-P353-P405-P501

## Iso-amyl alcohol

For Synthesis  
 $\text{C}_5\text{H}_{12}\text{O}$  MW =88.15

**Product code:** 209012500

**C.A.S. :** 123-51-5

**2.5 L**

**EINECS :** 204-633-5

|                                      |               |
|--------------------------------------|---------------|
| Assay %                              | Min 98        |
| Water %                              | Max 0.5       |
| Density ( $d_{20/4}^\circ\text{C}$ ) | 0.810 - 0.813 |
| Non volatile matter %                | Max 0.01      |



H226-H332-H335-H066

P210-P241-P261-P303-P361-P353-P405-P501

## L-Isoleucine

For Biochemistry  
 $\text{C}_6\text{H}_{13}\text{NO}_2$  MW =131.17

**Product code:** 509200005/0025

**C.A.S. :** 73-32-5

**5 gr  
25 gr**

**EINECS :** 200-798-2

|                                                                                           |                  |
|-------------------------------------------------------------------------------------------|------------------|
| Assay ( $\text{HClO}_4$ titration) %                                                      | Min 99           |
| Specific rotation - $\alpha_{20/D,40}^\circ$ g/l HCl 250g/l<br>(Calc. on dried substance) | +40° to +43°     |
| Specific rotation - $\alpha_{25/D,40}^\circ$ g/l HCl 6 mol/<br>(Calc. on dried substance) | +38.9° to +41.8° |
| pH (1% $\text{CO}_2$ free water) %                                                        | 5.5 - 7.0        |
| Chloride ( $\text{Cl}$ ) %                                                                | Max 0.02         |
| Sulfate ( $\text{SO}_4$ ) %                                                               | Max 0.03         |
| Iron ( $\text{Fe}$ ) %                                                                    | Max 0.001        |
| Heavy metals (as Pb) %                                                                    | Max 0.001        |
| Ammonium ( $\text{NH}_4$ ) %                                                              | Max 0.02         |
| Foreign amino acids %                                                                     | Max 0.5          |
| Other ninhydrin-positive substances (as glycine) %                                        | Max 0.1          |

## Iso-Octane

Analytical Reagent

$C_8H_{18}$  MW =114.23

**Product code:** 209060500

**C.A.S. :** 540-84-1

**500 ml**

**EINECS :** 208-759-1

|                                          |                 |
|------------------------------------------|-----------------|
| Assay %                                  | Min 99.5        |
| Wt.per ml at °C                          | 0.691 - 0.693 g |
| Bromine number                           | Max 0.5         |
| Refractive index (n <sub>20</sub> deg/D) | 1.391 - 1.392   |
| Water %                                  | Max 0.025       |
| Acidity (CH <sub>3</sub> COOH) %         | Max 0.0005      |
| Non-volatile matter %                    | Max 0.002       |
| Sulfur compounds (CS <sub>2</sub> ) %    | Max 0.0003      |
| Copper (Cu) %                            | Max 0.00002     |
| Iron (Fe) %                              | Max 0.00005     |
| Lead (Pb) %                              | Max 0.00002     |



H225-H304-H400-H410-H315-H336  
P210-P241-P301-P310-P303-P361-P353-P405-P501

## Iso-Octane

For HPLC

$C_8H_{18}$  MW =114.23

**Product code:** 520311000

**C.A.S. :** 540-84-1

**1 L**

**EINECS :** 208-759-1

|                                            |            |
|--------------------------------------------|------------|
| Assay %                                    | Min 99.8   |
| Non-volatile matter %                      | Max 0.0001 |
| Acidity (as CH <sub>3</sub> COOH) %        | Max 0.001  |
| Water %                                    | Max 0.05   |
| Absorbance in a 1.0 cm cell against water: |            |
| At 210 nm                                  | Max 1.0    |
| At 220 nm                                  | Max 0.30   |
| At 230 nm                                  | Max 0.10   |
| At 240 nm                                  | Max 0.05   |
| At 250 nm                                  | Max 0.01   |
| At 270 nm                                  | Max 0.01   |



H225-H304-H400-H410-H315-H336  
P210-P241-P301-P310-P303-P361-P353-P405-P501

## Iso-Propylamine

Laboratory Reagent

$C_3H_9N$  MW =59.11

**Product code:** 209110500

**C.A.S. :** 75-31-0

**500 ml**

**EINECS :** 200-860-9

|                       |               |
|-----------------------|---------------|
| Assay %               | Min 99        |
| Density $\rho_{20}^0$ | 0.687 - 0.688 |
| Water %               | Max 0.5       |



H224-H315-H319-H335  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501

## Kaolin

Laboratory Reagent

**Product code:** 511000500

**C.A.S. :** 1332-58-7

**500 gr**

|                                |            |
|--------------------------------|------------|
| Arsenic (As) %                 | Max 0.0002 |
| Heavy metals (as Pb) %         | Max 0.002  |
| Chloride (Cl) %                | Max 0.033  |
| Loss on drying (at 105 °C) %   | Max 1.5    |
| Loss on ignition (at 600 °C) % | Max 15     |

## Kinetin

Laboratory Reagent

$C_{10}H_9N_3O$  MW =215.22

**Product code:** 511030001

**C.A.S. :** 525-79-1

**1 gr**

**EINECS :** 208-382-2

|                  |           |
|------------------|-----------|
| Assay %          | Min 99.5  |
| Melting point °C | 267 - 270 |

## Lactic acid

Analytical Reagent

$C_3H_5O_3$  MW =90.08

**Product code:** 112010500

**C.A.S. :** 72-33-4

**500 ml**

**EINECS :** 201-196-2

|                                              |                |
|----------------------------------------------|----------------|
| Color                                        | Max 50 APHA    |
| Positive test for Lactate                    | Passes test    |
| Total acidity (as lactic acid) %             | Min. 88.0 w/w  |
| Stereochemical purity (L+) %                 | Min 97.0       |
| Density at 20°C                              | 1.19-1.21 g/ml |
| Heavy metals (as Pb) %                       | Max 0.001      |
| Iron (Fe) %                                  | Max 0.001      |
| Calcium (Ca) %                               | Max 0.001      |
| Chloride (Cl) %                              | Max 0.001      |
| Sulfate (SO <sub>4</sub> ) %                 | Max 0.001      |
| Sulfated ash %                               | Max 0.05       |
| Cyanide (CN) %                               | Max 0.0005     |
| Lead (Pb) %                                  | Max 0.00005    |
| Arsenic (As) %                               | Max 0.0001     |
| Mercury (Hg) %                               | Max 0.0001     |
| Reducing substance (Sugars)                  | Passes test    |
| Citric, Oxalic, tartaric and phosphoric acid | Passes test    |



H318-H315  
P280B-P305-P351-P338-P310

## Lactic acid

Laboratory Reagent

$C_3H_5O_3$  MW =90.08

**Product code:** 112060500

**C.A.S. :** 72-33-4

**500 ml**

**EINECS :** 201-196-2

|                              |               |
|------------------------------|---------------|
| Assay %                      | 88 - 92       |
| Sulfated ash %               | Max 0.1       |
| Iron (Fe) %                  | Max 0.001     |
| Chloride (Cl) %              | Max 0.2       |
| Sulfate (SO <sub>4</sub> ) % | Max 0.02      |
| Heavy metals (as Pb) %       | Max 0.001     |
| Arsenic (As) %               | Max 0.0003    |
| Calcium (Ca) %               | Max 0.02      |
| Mercury (Hg) %               | Max 0.0001    |
| Lead (Pb) %                  | Max 0.0005    |
| Wt.per ml at 20 °C           | 1.20 - 1.21 g |



H318-H315  
P280B-P305-P351-P338-P310

## Lactose monohydrate

Analytical Reagent

$C_{12}H_{22}O_{11} \cdot H_2O$  MW =360.31

**Product code:** 512000500

**C.A.S. :** 10039-26-6

**500 gr**

**EINECS :** 200-559-2

|                                           |                  |
|-------------------------------------------|------------------|
| Specific rotation at 20 °C (10% in water) | +54.°4 to +55.9° |
| Water %                                   | 4.8 - 5.4        |
| Free acid %                               | Max 0.25 ml N    |
| Insoluble matter %                        | Max 0.005        |
| Alcohol soluble impurities %              | Max 0.2          |
| Sulfated ash %                            | Max 0.3          |
| Nitrogen compounds (N) %                  | Max 0.02         |
| Arsenic (As) %                            | Max 0.0001       |
| Copper (Cu) %                             | Max 0.00005      |
| Iron (Fe) %                               | Max 0.0002       |
| Lead (Pb) %                               | Max 0.00005      |

## Lactose monohydrate

Laboratoy Reagent

$C_{12}H_{22}O_{11} \cdot H_2O$  MW =360.31

**Product code:** 512020500

**C.A.S. :** 10039-26-6

**500 gr**

**EINECS :** 200-559-2

|                                           |                  |
|-------------------------------------------|------------------|
| Specific rotation at 20 °C (10% in water) | +54.4° to +55.9° |
| Sulfated ash %                            | Max 0.5          |
| Water (KF) %                              | 4.5 - 5.5        |
| Heavy metals (as Pb) %                    | Max 0.0005       |
| Arsenic (As) %                            | Max 0.0001       |
| Copper (Cu) %                             | Max 0.0025       |
| Lead (Pb) %                               | Max 0.00005      |
| Zinc (Zn) %                               | Max 0.0025       |
| Loss on drying (at 80 °C, 2 hrs.) %       | Max 0.5          |
| Matter extractable with ethanol %         | Max 0.4          |

## Lactose monohydrate broth

For Microbiology

**Product code:** DM2220500

**500 gr**

|                              |           |
|------------------------------|-----------|
| Pancreatic digest of gelatin | 4.750 G/L |
| Beef extract                 | 3.00 G/L  |
| Lactose monohydrate          | 5.00 G/L  |
| pH after sterilization       | 6.9 ± 0.2 |

## Lanolin anhydrous

Laboratoy Reagent

**Product code:** 500160500

**C.A.S. :** 8006-54-0

**500 gr**

**EINECS :** 232-348-6

|                      |          |
|----------------------|----------|
| Melting point °C     | 38 - 44  |
| Acid value           | Max 1    |
| Peroxide value       | Max 20   |
| Saponification value | 90 - 105 |
| Loss on drying %     | Max 0.5  |
| Sulfated ash %       | Max 0.15 |

## Lead (metal) granular

Analytical Reagent

Pb MW =207.20

**Product code:** 312310500

**C.A.S. :** 7439-92-1

**500 gr**

**EINECS :** 231-100-4

|                          |          |
|--------------------------|----------|
| Assay (Complexometric) % | Min 99.5 |
|--------------------------|----------|



H360-H373-H400-H410-H302-H332  
P201-P273-P308-P313

## Lead (metal) powder

Laboratory Reagent

Pb MW =207.20

**Product code:** 312370500

**C.A.S. :** 7439-92-1

**500 gr**

**EINECS :** 231-100-4

|         |          |
|---------|----------|
| Assay % | Min 99.5 |
|---------|----------|



H360DI-H373-H400-H410-H302-H332  
P201-P273-P308-P313

## Lead acetate trihydrate

Analytical Reagent

$(CH_3COO)_2Pb \cdot 3H_2O$  MW =379.33

**Product code:** 312010500

**C.A.S. :** 6080-56-4

**500 gr**

**EINECS :** 206-104-4

|                                        |            |
|----------------------------------------|------------|
| Assay %                                | 99.0 - 103 |
| Insoluble matter %                     | Max 0.01   |
| Chloride (Cl) %                        | Max 0.0005 |
| Nitrite & Nitrate (NO <sub>3</sub> ) % | Max 0.005  |
| Calcium (Ca) %                         | Max 0.005  |
| Copper (Cu) %                          | Max 0.002  |
| Iron (Fe) %                            | Max 0.001  |
| Potassium (K) %                        | Max 0.005  |
| Sodium (Na) %                          | Max 0.005  |



H360-H373-H400-H410-H302-H332  
P260-P261-P281-P304-P340-P405-P501

## Lead (II) sulfate

Laboratory Reagent

PbSO<sub>4</sub> MW =303.26

**Product code:** 311580500

**C.A.S. :** 7446-14-2

**500 gr**

**EINECS :** 231-198-9

|                        |          |
|------------------------|----------|
| Assay (ex Pb) %        | Min 98.5 |
| Water soluble matter % | Max 0.1  |
| Moisture %             | Max 0.1  |
| Chloride (Cl) %        | Max 0.04 |



H360-H373-H400-H410-H302-H332  
P260-P261-P281-P304-P340-P405-P501A

## Lead dioxide

Laboratory Reagent

PbO<sub>2</sub> MW =239.20

**Product code:** 312290500

**C.A.S. :** 1309-60-0

**500 gr**

**EINECS :** 215-174-5

|                                                             |           |
|-------------------------------------------------------------|-----------|
| Assay %                                                     | Min 95    |
| Substances insoluble in nitric acid and hydrogen peroxide % | Max 0.1   |
| Chloride (Cl) %                                             | Max 0.05  |
| Manganese (Mn) %                                            | Max 0.001 |
| Sulfate (SO <sub>4</sub> ) %                                | Max 0.05  |



H360-H373-H400-H410-H302-H332  
P260-P261-P281-P304-P340-P405-P501

## L-Leucine

For Biochemistry  
 $C_6H_{13}NO_2$  MW =131.18

**Product code:** 512120025

**C.A.S. :** 61-90-5

**25 gr**

**EINECS :** 200-522-0

|                                                                               |                   |
|-------------------------------------------------------------------------------|-------------------|
| Assay (HClO <sub>4</sub> titration) %                                         | Min 99            |
| Specific rotation (d) 20 deg(C=4 in 6M HCl calculated on anhydrous substance) | +14.9° to +16.50° |
| pH of 1% solution                                                             | 5.5 - 7.0         |
| Loss on drying (at 105 °C) %                                                  | Max 0.2           |
| Residue on ignition (as SO <sub>4</sub> ) %                                   | Max 0.1           |
| Chloride (Cl) %                                                               | Max 0.02          |
| Sulfate (SO <sub>4</sub> ) %                                                  | Max 0.03          |
| Iron (Fe) %                                                                   | Max 0.001         |
| Heavy metals (as Pb) %                                                        | Max 0.001         |
| Ammonium (NH <sub>4</sub> ) %                                                 | Max 0.02          |
| Foreign amino acids %                                                         | Max 0.3           |
| Other ninhydrin-positive substances (as glycine) %                            | Max 0.1           |

## Light green

For Microscopy  
 $C_{37}H_{34}N_2Na_2O_3S_3$  MW =792.86

**Product code:** 508190025

**C.A.S. :** 5141-20-8

**25 gr**

**EINECS :** 225-906-5

|                                                                                   |              |
|-----------------------------------------------------------------------------------|--------------|
| Dye content %                                                                     | Min 65.0     |
| Solubility (Turbidity) 1 mg/mL, H <sub>2</sub> O Clear Absorption maxima in water | 629 - 634 nm |
| Loss on drying (at 110°C) %                                                       | Max 12.0     |

## Lithium acetate dihydrate

Laboratory Reagent  
 $CH_3COOLi \cdot 2H_2O$  MW =102.02

**Product code:** 311600250

**C.A.S. :** 6108-17-4

**250 gr**

**EINECS :** 208-914-3

|                              |           |
|------------------------------|-----------|
| Assay (Ex acetate) %         | Min 99    |
| Chloride (Cl) %              | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01  |
| Iron (Fe) %                  | Max 0.002 |
| Lead (Pb) %                  | Max 0.002 |
| Potassium (K) %              | Max 0.005 |
| Sodium (Na) %                | Max 0.01  |
| Lead (Pb) %                  | Max 0.002 |

## Lithium carbonate

Analytical Reagent  
 $Li_2CO_3$  MW =73.90

**Product code:** 312060250

**C.A.S. :** 554-13-2

**250 gr**

**EINECS :** 209-062-5

|                                   |            |
|-----------------------------------|------------|
| Assay %                           | Min 99     |
| Calcium (Ca) %                    | Max 0.01   |
| Chloride (Cl) %                   | Max 0.005  |
| Heavy metals (as Pb) %            | Max 0.005  |
| Insoluble in HCl %                | Max 0.01   |
| Iron (Fe) %                       | Max 0.002  |
| Potassium (K) %                   | Max 0.005  |
| Sodium (Na) %                     | Max 0.1    |
| Total Sulfur (SO <sub>4</sub> ) % | Max 0.2    |
| Ammonium (NH <sub>4</sub> ) %     | Max 0.0005 |
| Nitrate (NO <sub>3</sub> ) %      | Max 0.0005 |



H318-H302-H335-H315  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Lithium carbonate

Laboratory Reagent  
 $Li_2CO_3$  MW =73.90

**Product code:** 312070500

**C.A.S. :** 554-13-2

**500 gr**

**EINECS :** 209-062-5

|                               |           |
|-------------------------------|-----------|
| Assay %                       | Min 98    |
| Chloride (Cl) %               | Max 0.005 |
| Heavy metals (as Pb) %        | Max 0.005 |
| Iron (Fe) %                   | Max 0.005 |
| Insoluble in HCl %            | Max 0.05  |
| Total sulfur %                | Max 0.3   |
| Ammonium (NH <sub>4</sub> ) % | Max 0.005 |
| Nitrate (NO <sub>3</sub> ) %  | Max 0.005 |



H318-H302-H335-H315  
P261-P302-P352-P305-P351-P338-P321-P405-P501

## Lithium chloride anhydrous

Laboratory Reagent  
 $Li_2CO_3$  MW =73.90

**Product code:** 311610250

**C.A.S. :** 7447-41-8

**500 gr**

**EINECS :** 231-212-3

|                           |             |
|---------------------------|-------------|
| Assay %                   | Min 98.0    |
| Heavy metals (as Pb) %    | Max 0.01    |
| Sodium (Na) %             | Max 0.2     |
| pH of 5% solution at 25°C | 6.0 – 9.0   |
| Alkaline earth salts      | Passes test |



H302-H315-H319-H335  
P261-P280-P305+P351-P338-P304-P340-P405-P501A

## Lithium hydroxide monohydrate

Laboratory Reagent  
 $LiOH \cdot H_2O$  MW =41.96

**Product code:** 312360500

**C.A.S. :** 1310-66-3

**500 gr**

**EINECS :** 215-183-4

|                                                |          |
|------------------------------------------------|----------|
| Assay %                                        | Min 99   |
| Carbonate (Li <sub>2</sub> CO <sub>3</sub> ) % | Max 1    |
| Chloride (Cl) %                                | Max 0.01 |
| Sulfate (SO <sub>4</sub> ) %                   | Max 0.05 |
| Calcium (Ca) %                                 | Max 0.02 |
| Sodium (Na) %                                  | Max 0.02 |



H314-H302-H332  
P280-P303-P361-P353-P305-P351-P338-P310

## L-Lysine monohydrochloride

For Biochemistry  
 $C_6H_{14}N_2O_2 \cdot HCl$  MW =182.65

**Product code:** 203220100

**C.A.S. :** 657-27-2

**100 gr**

**EINECS :** 211-519-9

|                                                                   |                  |
|-------------------------------------------------------------------|------------------|
| Assay (Percl. Ac) calc. on anhydrous substance %                  | 98.5 - 101       |
| Specific rotation 20/D, C=8 (in HCl) calc. on anhydrous substance | +21° to +22.5°   |
| Specific rotation 25/D, C=8 (in HCl) calc. on anhydrous substance | +20.4° to +21.4° |
| Loss on drying (at 110 °C) %                                      | Max 0.4          |
| Sulfated ash %                                                    | Max 0.1          |
| Iron (Fe) %                                                       | Max 0.003        |
| Lead (Pb) %                                                       | Max 0.001        |
| Ammonium (NH <sub>4</sub> ) %                                     | Max 0.02         |
| Sulfate (SO <sub>4</sub> ) %                                      | Max 0.03         |

## M17 agar base

For Microbiology

**Product code:** DM2230500 **500 gr**

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Peptic diest of animal tissue | 5.000 G/L                                                     |
| Papaic digest of soyaben meal | 5.000 G/L                                                     |
| Yeast extract                 | 2.500 G/L                                                     |
| Beef extract                  | 5.00 G/L                                                      |
| Ascorbic acid                 | 0.500 G/L                                                     |
| Magnesium sulfate             | 0.250 G/L                                                     |
| Lactose                       | 5.000 G/L                                                     |
| Agar                          | 10.000 G/L                                                    |
| Final pH (at 25°C)            | 7.1 ± 0.2 G/L                                                 |
| pH rang                       | 6.90 - 7.30                                                   |
| Reaction                      | reaction of 3.33% w/v aqueous solution at 25°C pH : 7.1 ± 0.2 |

## Mac conkey agar

For Microbiology

**Product code:** DM2240500 **500 gr**

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Peptic digest of animal tissue | 20.000 G/L                                                     |
| Lactose                        | 10.000 G/L                                                     |
| Bile salts                     | 5.000 G/L                                                      |
| Sodium chloride                | 5.000 G/L                                                      |
| Neutral red                    | 0.070 G/L                                                      |
| Agar                           | 15.000 G/L                                                     |
| Final pH (25°C)                | 7.5 ± 0.2 G/L                                                  |
| pH                             | 7.30 - 7.70                                                    |
| Reaction                       | reaction of 5.5 % w/v aqueous solution at 25 °C pH : 7.5 ± 0.2 |

## Magnesium (metal) powder

Laboratory Reagent

Mg MW =24.31

**Product code:** 313160500 **500 gr**

**C.A.S. :** 7439-95-4

**EINECS :** 231-104-6

|                               |          |
|-------------------------------|----------|
| Assay %                       | Min 99   |
| Iron (Fe) %                   | Max 0.05 |
| Substances insoluble in HCl % | Max 0.05 |



H228-H251-H261  
P210-P231-P232-P241-P280-P420-P501

## Magnesium metal turnings

Laboratory Reagent

Mg MW =24.31

**Product code:** 312600500 **500 gr**

**C.A.S. :** 7439-95-4

**EINECS :** 231-104-6

|                           |          |
|---------------------------|----------|
| Assay %                   | Min 99.5 |
| Insoluble matter in HCl % | Max 0.01 |
| Iron (Fe) %               | Max 0.05 |



H228-H251-H261  
P210-P231-P232-P241-P280-P420-P501

## Magnesium acetate tetrahydrate

Laboratory Reagent

C<sub>4</sub>H<sub>6</sub>MgO<sub>6</sub>·4H<sub>2</sub>O MW =214.46

**Product code:** 312490500 **500 gr**

**C.A.S. :** 16674-78-5

**EINECS :** 205-554-9

|                              |           |
|------------------------------|-----------|
| Assay %                      | 98 - 102  |
| Chloride (Cl) %              | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01  |
| Lead (Pb) %                  | Max 0.002 |

## Magnesium chloride hexahydrate

Analytical Reagent

MgCl<sub>2</sub>·6H<sub>2</sub>O MW =203.30

**Product code:** 313030500

**C.A.S. :** 7791-18-6

**EINECS :** 232-094-6

|                                |            |
|--------------------------------|------------|
| Assay %                        | Min 98     |
| Water insoluble matter %       | Max 0.003  |
| Nitrogen compounds (N) %       | Max 0.002  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.0005 |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.002  |
| Arsenic (As) %                 | Max 0.0002 |
| Barium (Ba) %                  | Max 0.005  |
| Calcium (Ca) %                 | Max 0.01   |
| Iron (Fe) %                    | Max 0.0005 |
| Heavy metals (as Pb) %         | Max 0.0005 |
| Manganese (Mn) %               | Max 0.0005 |
| Potassium (K) %                | Max 0.005  |
| Sodium (Na) %                  | Max 0.005  |
| Strontium (Sr) %               | Max 0.005  |
| Water %                        | 51 - 55    |
| pH of 5% solution              | 5.0 - 6.5  |
| Bromide (Br) %                 | Max 0.05   |

## Magnesium chloride hexahydrate

Laboratory Reagent

MgCl<sub>2</sub>·6H<sub>2</sub>O MW =203.30

**Product code:** 313080500

**C.A.S. :** 7791-18-6

**EINECS :** 232-094-6

|                                |            |
|--------------------------------|------------|
| Assay %                        | Min 98     |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.005  |
| Heavy metals (as Pb) %         | Max 0.001  |
| Arsenic (As) %                 | Max 0.0002 |
| Barium and Strontium (as Ba) % | Max 0.002  |
| Calcium (Ca) %                 | Max 0.1    |
| Iron (Fe) %                    | Max 0.001  |
| Potassium (K) %                | Max 0.5    |
| Sodium (Na) %                  | Max 0.3    |

## Magnesium nitrate hexahydrate

Analytical Reagent

Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O MW =256.41

**Product code:** 313140500

**C.A.S. :** 13446-18-9

**EINECS :** 233-826-7

|                                |            |
|--------------------------------|------------|
| Assay %                        | 99 - 102   |
| pH (5% water)                  | 5 - 7      |
| Insoluble matter %             | Max 0.005  |
| Chloride (Cl) %                | Max 0.001  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.0005 |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.002  |
| Heavy metals (as Pb) %         | Max 0.0005 |
| Ammonium (NH <sub>4</sub> ) %  | Max 0.001  |
| Arsenic (As) %                 | Max 0.0001 |
| Barium (Ba) %                  | Max 0.001  |
| Strontium (Sr) %               | Max 0.001  |
| Calcium (Ca) %                 | Max 0.005  |
| Iron (Fe) %                    | Max 0.0005 |
| Potassium (K) %                | Max 0.0005 |
| Manganese (Mn) %               | Max 0.0005 |
| Sodium (Na) %                  | Max 0.0005 |



H272-H315-H319-H335  
P221-P210-P220-P305-P351-P338-P405-P501A

## Magnesium oxide light

Laboratory Reagent  
MgO MW =40.30

**Product code:** 313340500

**C.A.S. :** 1309-48-4

**500 gr**

**EINECS :** 215-171-9

|                                 |                       |
|---------------------------------|-----------------------|
| Assay (as MgO) %                | 96 - 100.5            |
| Identification                  | Passes test           |
| Loss on ignition (at 800°C) %   | Max 10                |
| Free alkali and soluble salts % | Max 2                 |
| Acid insoluble substances %     | Max 0.1               |
| Calcium (Ca) %                  | Max 1.1               |
| Heavy metals (as Pb) %          | Max 0.002             |
| Iron (Fe) %                     | Max 0.05              |
| Residual solvents               | Meets the requirement |

## Magnesium sulfate dried

Laboratory Reagent  
MgSO<sub>4</sub>.xH<sub>2</sub>O MW =120.37 (anhy)

**Product code:** 313100500

**C.A.S. :** 22189-08-8

**500 gr**

**EINECS :** 231-298-2

|                              |            |
|------------------------------|------------|
| Assay %                      | Min 70     |
| Chloride (Cl) %              | Max 0.02   |
| Total nitrogen (N) %         | Max 0.003  |
| Heavy metals (as Pb) %       | Max 0.001  |
| Iron (Fe) %                  | Max 0.001  |
| Arsenic (As) %               | Max 0.0005 |
| Calcium (Ca) %               | Max 0.03   |
| Loss on drying (at 450 °C) % | 26 - 32    |

## Magnesium sulfate heptahydrate

Analytical Reagent  
MgSO<sub>4</sub>.7H<sub>2</sub>O MW =246.47

**Product code:** 313060500

**C.A.S. :** 10034-99-8

**500 gr**

**EINECS :** 231-298-2

|                               |            |
|-------------------------------|------------|
| Assay %                       | 99.5 - 102 |
| Water insoluble matter %      | Max 0.005  |
| pH (5% water)                 | 5 - 7      |
| Nitrate (NO <sub>3</sub> ) %  | Max 0.002  |
| Ammonium (NH <sub>4</sub> ) % | Max 0.002  |
| Chloride (Cl) %               | Max 0.0005 |
| Calcium (Ca) %                | Max 0.02   |
| Heavy metals (as Pb) %        | Max 0.0005 |
| Iron (Fe) %                   | Max 0.0005 |
| Potassium (K) %               | Max 0.005  |
| Manganese (Mn) %              | Max 0.0005 |
| Sodium (Na) %                 | Max 0.005  |
| Strontium (Sr) %              | Max 0.005  |

## Malachite green

For Microscopy  
C<sub>52</sub>H<sub>34</sub>N<sub>4</sub>O<sub>12</sub> MW =927.02

**Product code:** 413070025/0100

**C.A.S. :** 2437-29-8

**25 gr  
100 gr**

**EINECS :** 219-441-7

|                             |              |
|-----------------------------|--------------|
| Absorption max.             | 616 - 620 nm |
| Absorptivity A at λ max.    | Min 1450     |
| Ratio of α max. P+/-15 nm   | 1.00 - 1.15  |
| Loss on drying (at 110°C) % | Max 7        |



H302-H312  
P280-P301-P312-P312-P363-P322-P501A

## Maleic acid

For Synthesis  
C<sub>4</sub>H<sub>4</sub>O<sub>4</sub> MW =116.08

**Product code:** 113010500

**C.A.S. :** 110-16-7

**500 gr**

**EINECS :** 203-742-5

|                        |           |
|------------------------|-----------|
| Assay (acidimetric) %  | Min 99    |
| Water %                | Max 2     |
| Sulfated ash %         | Max 0.1   |
| Fumaric acid %         | Max 1.5   |
| Heavy metals (as Pb) % | Max 0.001 |



H302-H315-H319-H317-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Maleic anhydride

Laboratory Reagent  
C<sub>4</sub>H<sub>2</sub>O<sub>3</sub> MW =98.06

**Product code:** 513010500

**C.A.S. :** 108-31-6

**500 gr**

**EINECS :** 203-571-6

|                  |           |
|------------------|-----------|
| Assay %          | Min 99    |
| Melting point °C | 51 - 53°C |
| Sulfated ash %   | Max 0.05  |



H334-H317-H314-H302  
P260-P285-P303-P361-P353-P305-P351-P338-P405-P501A

## Malt extract powder

For Microbiology

**Product code:** DM1180500

**500 gr**

|                               |           |
|-------------------------------|-----------|
| PH (10% w/v aqueous solution) | 6.5 ± 1.0 |
| Protein contents %            | Min 5.0   |
| Carbohydrate content %        | Min 70.00 |
| Loss on drying %              | Max 5.00  |

## Maltose monohydrate

For Bacteriology  
C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.H<sub>2</sub>O MW =360.32

**Product code:** 516410100

**C.A.S. :** 6363-53-7

**100 gr**

**EINECS :** 200-716-5

|                     |              |
|---------------------|--------------|
| Appearance          | White powder |
| Maltose %           | Min 92       |
| Moisture %          | Max 7        |
| pH                  | 4 - 5.5      |
| Ignition residue %  | Max 0.05     |
| Glucose %           | Max 3        |
| Arsenic (As) %      | Max 0.0002   |
| Heavy metals (Pb) % | Max 0.0005   |

**Manganese (II) acetate tetrahydrate** Analytical Reagent  
 $C_4H_6MnO_4 \cdot 4H_2O$  MW =245.09

**Product code:** 313010500

**C.A.S. :** 6156-78-1

**500 gr**

**EINECS :** 211-334-3

|                        |           |
|------------------------|-----------|
| Assay %                | Min 99    |
| Calcium (Ca) %         | Max 0.04  |
| Iron (Fe) %            | Max 0.001 |
| Magnesium (Mg) %       | Max 0.04  |
| Heavy metals (as Pb) % | Max 0.001 |
| Chloride (Cl) %        | Max 0.005 |
| Sulfate ( $SO_4$ ) %   | Max 0.01  |
| Sodium (Na) %          | Max 0.01  |
| Zinc (Zn) %            | Max 0.005 |



H315 H319-H335

P261-P302-P352-P305-P351-P338-P321-P405-P501

**Manganese (II) carbonate** Laboratory Reagent  
 $MnCO_3 \cdot xH_2O$  MW =114.95

**Product code:** 312530500

**C.A.S. :** 34156-69-9

**500 gr**

|                                              |          |
|----------------------------------------------|----------|
| Manganese (Mn) %                             | 43 - 46  |
| Acid insoluble matter ( $HNO_3 + H_2O_2$ ) % | Max 0.05 |
| Chloride (HCl) %                             | Max 0.02 |
| Sulfate ( $SO_4$ ) %                         | Max 0.5  |
| Iron (Fe) %                                  | Max 0.01 |

**Manganese (II) chloride tetrahydrate** Analytical Reagent  
 $MnCl_2 \cdot 4H_2O$  MW =197.90

**Product code:** 313120500

**C.A.S. :** 13446-34-9

**500 gr**

**EINECS :** 231-869-6

|                             |            |
|-----------------------------|------------|
| Assay %                     | 98 - 101   |
| Insoluble matter %          | Max 0.003  |
| Sulfate ( $SO_4$ ) %        | Max 0.0025 |
| Barium (Ba) %               | Max 0.01   |
| Calcium (Ca) %              | Max 0.04   |
| Copper (Cu) %               | Max 0.0002 |
| Iron (Fe) %                 | Max 0.001  |
| Lead (Pb) %                 | Max 0.0002 |
| Magnesium (Mg) %            | Max 0.04   |
| Nickel (Ni) %               | Max 0.002  |
| Potassium (K) %             | Max 0.01   |
| Sodium (Na) %               | Max 0.02   |
| Zinc (Zn) %                 | Max 0.02   |
| Substance reducing iodine % | Max 0.0065 |



H302

P264-P270-P301-P312-P330-P501

**Manganese (II) chloride tetrahydrate** Laboratory Reagent  
 $MnCl_2 \cdot 4H_2O$  MW =197.90

**Product code:** 313130500

**C.A.S. :** 13446-34-9

**500 gr**

**EINECS :** 231-869-6

|                                  |            |
|----------------------------------|------------|
| Assay %                          | Min 97     |
| Calcium (Ca) %                   | Max 0.1    |
| Copper (Cu) %                    | Max 0.0002 |
| Iron (Fe) %                      | Max 0.003  |
| Lead (Pb) %                      | Max 0.002  |
| Zinc (Zn) %                      | Max 0.02   |
| Substances reducing iodine (I) % | Max 0.0065 |



H302

P264-P270-P301-P312-P330-P501

**Manganese(IV) oxide** Analytical Reagent  
 $MnO_2$  MW =86.94

**Product code:** 313260500

**C.A.S. :** 1313-13-9

**500 gr**

**EINECS :** 215-202-6

|                          |           |
|--------------------------|-----------|
| Assay (Iodometric) %     | 92.0-94.0 |
| Acid insoluble matter %  | Max 0.1   |
| Chloride (Cl) %          | Max 0.05  |
| Sulfate ( $SO_4$ ) %     | Max 0.01  |
| Iron (Fe) %              | Max 0.005 |
| Lead (Pb) %              | Max 0.005 |
| Barium (Ba) %            | Max 0.1   |
| Calcium (Ca) %           | Max 0.1   |
| Loss on drying (1050C) % | Max 0.2   |



H302-H332

P261-P264-P304-P340-P301-P312-P312-P501A

**Manganese (II) sulfate monohydrate** Analytical Reagent  
 $MnSO_4 \cdot H_2O$  MW =169.02

**Product code:** 313210500

**C.A.S. :** 10034-96-5

**500 gr**

**EINECS :** 232-089-9

|                                      |             |
|--------------------------------------|-------------|
| Assay %                              | Min 99      |
| Insoluble matter %                   | Max 0.01    |
| Chloride (Cl) %                      | Max 0.005   |
| Calcium (Ca) %                       | Max 0.005   |
| Iron (Fe) %                          | Max 0.002   |
| Heavy metals (as Pb) %               | Max 0.002   |
| Magnesium (Mg) %                     | Max 0.005   |
| Nickel (Ni) %                        | Max 0.02    |
| Potassium (K) %                      | Max 0.01    |
| Sodium (Na) %                        | Max 0.05    |
| Zinc (Zn) %                          | Max 0.005   |
| Substances reducing permanganate (O) | Passes test |
| Loss on ignition %                   | 10 - 12     |



H373-H411-H401

P260-P273-P314-P391-P501A

## Manganese (II) sulfate monohydrate

Laboratory Reagent  
MnSO<sub>4</sub>·H<sub>2</sub>O MW =169.02

**Product code:** 313270500

**C.A.S. :** 10034-96-5

**EINECS :** 232-089-9

**500 gr**

|                                                   |           |
|---------------------------------------------------|-----------|
| Assay %                                           | Min 98    |
| Chloride (Cl) %                                   | Max 0.01  |
| Lead (Pb) %                                       | Max 0.002 |
| Iron (Fe) %                                       | Max 0.002 |
| Zinc (Zn) %                                       | Max 0.005 |
| Calcium (Ca) %                                    | Max 0.01  |
| Substances not precipitated by Ammonium sulfide % | Max 0.5   |
| Loss on ignition %                                | 10 - 13   |



H373-H411-H401  
P260-P273-P314-P391-P501A

## Mannitol salt agar base

For Microbiology

**Product code:** DM2250500

**500 gr**

|                                                                                              |                                                             |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Proteose peptone                                                                             | 10.000 G/L                                                  |
| Beef extract                                                                                 | 1.000 G/L                                                   |
| Sodium chloride                                                                              | 75.000 G/L                                                  |
| D-Mannitol                                                                                   | 10.000 G/L                                                  |
| Phenol red                                                                                   | 0.025 G/L                                                   |
| Agar                                                                                         | 15.000 G/L                                                  |
| Final pH (at 25°C)                                                                           | 7.4 ± 0.2                                                   |
| Reaction                                                                                     | reaction of 11.1% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |
| Prepare the medium per label direction. Inoculate and incubate at 35 ± 2°C for 18 - 48 hours |                                                             |

## D-Mannose

For Biochemistry

C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> MW =180.16

**Product code:** 513160010/0025

**C.A.S. :** 3458-28-4

**EINECS :** 222-392-4

**10 gr  
25 gr**

|                                           |               |
|-------------------------------------------|---------------|
| Assay %                                   | Min 99        |
| Heavy metals (as Pb) %                    | Max 0.001     |
| Water %                                   | Max 0.5       |
| Specific rotation (5% H <sub>2</sub> O) % | 13.8° - 14.4° |

## May and grunwald's stain

For Microscopy

**Product code:** 413140025

**25 gr**

|                                                                     |               |
|---------------------------------------------------------------------|---------------|
| Loss on drying (at 105 °C) %                                        | Max 10        |
| Absorbance maxima at λ                                              | 1648 - 653 nm |
| Absorbance maxima at λ <sub>2</sub>                                 | 520 - 525 nm  |
| Specific absorptivity A 1%/1 cm at λ <sub>1</sub> (dried substance) | 1100 - 1300   |
| Specific absorptivity A 1%/1 cm at λ <sub>2</sub> (dried substance) | 600 - 800     |

## Mayer's solution

Laboratory Reagent

**Product code:** 201320125

**125 ml**

|             |                               |
|-------------|-------------------------------|
| Appearance  | Pale yellow coloured solution |
| Suitability | Passes test                   |

## Meat extract powder

For Microbiology

**Product code:** DM1040500

**500 gr**

|                                        |                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Description                            | light yellow to brownish yellow homogeneous free flowing powder having Characteristic odour but not putrescent    |
| Solubility                             | 1% w/v aqueous solution remains clear without haziness after autoclaving at 15lbs pressure (121°C) for 15 minutes |
| pH of 1% w/v aqueous solution at 25°C  | pH 6.4 ± 0.5                                                                                                      |
| Assay (total nitrogen) %               | Min 11.50                                                                                                         |
| Amino nitrogen %                       | 3.50                                                                                                              |
| Loss on drying %                       | Max 5.00                                                                                                          |
| Residue on ignition %                  | Max 20.00                                                                                                         |
| Sodium chloride %                      | Max 5.00                                                                                                          |
| Total aerobic microbial count (cfu/gm) | 250.00                                                                                                            |
| Total yeast and mold count (cfu/gm)    | 100.00                                                                                                            |

## Meat liver agar

For Microbiology

**Product code:** DM2260500

**500 gr**

|                         |           |
|-------------------------|-----------|
| Meat liver base         | 20.00 G/L |
| Dextrose                | 0.750 G/L |
| Starch                  | 0.750 G/L |
| Sodium sulfite          | 1.200 G/L |
| Ferric ammonium citrate | 0.500 G/L |
| Agar                    | 11.00 G/L |
| Final pH (at 25°C)      | 7.6 ± 0.2 |

## Meat peptone

For Microbiology

**Product code:** DM1120500

**500 gr**

|                                        |                              |
|----------------------------------------|------------------------------|
| pH (1.0% w/v aqueous solution)         | 6.5 ± 0.5                    |
| Total nitrogen                         | Min 11.5                     |
| α-amino nitrogen %                     | Min 3.0                      |
| Sodium chloride %                      | Max 6.0                      |
| Loss on drying %                       | Max 5.0                      |
| Residue on ignition %                  | Max 15.0                     |
| Total aerobic microbial count (cfu/gm) | Max 250.0                    |
| Total yeast and mold count (cfu/gm)    | Max 100.0                    |
| Microbial limit test                   | Negative in 10 gms of sample |

## D-(+)-Melibiose

For Bacteriology

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O MW =360.32

**Product code:** 513170005

**C.A.S. :** 66009-10-7

**EINECS :** 209-568-6

**5 gr**

|                                                                   |                |
|-------------------------------------------------------------------|----------------|
| Saccharose %                                                      | Max 0.1        |
| Water %                                                           | 3.5 - 5.0      |
| Specific rotation (5% in H <sub>2</sub> O on anhydrous Substance) | +141° to +143° |

## 2-Mercaptoethanol

For Synthesis

C<sub>2</sub>H<sub>6</sub>OS MW =78.13

**Product code:** 520220100

**C.A.S. :** 60-24-2

**EINECS :** 200-464-6

**100 ml**

|                                               |               |
|-----------------------------------------------|---------------|
| Assay (By GC) %                               | Min 99.0      |
| Wt. per ml at 20°C                            | 1.15 - 1.16 g |
| Refractive index n <sub>D</sub> <sup>20</sup> | 1.499 - 1.502 |



H301-H310-H315-H317-H335-H318-H400-H410-H227  
P210-P301-P310-P305-P351-P338-P361-P405-P501A

## Mercury (II) chloride

Analytical Reagent  
 $\text{HgCl}_2$  MW =271.50

**Product code:** 313220100

**C.A.S. :** 7487-94-7

**100 gr**

**EINECS :** 231-299-8

Assay of Mercuric Chloride %

99.83

Description

White Powder

Soluble in ethyl ether

Complies

Residue after deduction %

0.013

Iron

Complies



H300-H310-H372-H341-H361-H314-H400-H410

P301-P310-P303-P304-P353-P305-P351-P338-P361-P405-P501A

## Mercury (II) iodide red

Laboratory Reagent  
 $\text{HgI}_2$  MW =454.40

**Product code:** 313280100

**C.A.S. :** 7774-29-0

**100 gr**

**EINECS :** 231-873-8

Assay (Oxidimetric) %

Max 9.0

Chloride (Cl) %

Max 0.15

Calcium (Ca) %

Max 0.01

Magnesium (Mg) %

Max 0.01

Mercurous mercury (as Hg) %

Max 0.15

Soluble mercury compounds %

Max 0.08



H300-H310-H330-H373-H400-H410

P260-P301-P310-P304-P340-P320-P330-P361-P405-P501A

## Mercury (II) oxide yellow

Laboratory Reagent  
 $\text{HgO}$  MW =216.59

**Product code:** 313300100

**C.A.S. :** 21908-53-2

**100 gr**

**EINECS :** 244-654-7

Assay (Argentometric; ex Hg) %

Min 99.0

Chloride (Cl) %

Max 0.2

Calcium (Ca) %

Max 0.05

Magnesium (Mg) %

Max 0.05



H300-H310-H330-H373-H400-H410

P260-P301-P310-P304-P340-P320-P330-P361-P405-P501A

## Mercury (II) sulfate

Analytical Reagent  
 $\text{HgSO}_4$  MW =296.65

**Product code:** 313250100

**C.A.S. :** 7783-35-9

**100 gr**

**EINECS :** 231-992-5

Assay (Content of  $\text{HgSO}_4$ ) %

99.72 w/w

Residue after reduction %

0.0108 w/w

Chloride (Cl)

Complies

Nitrate ( $\text{NO}_3$ )

Complies

Iron (Fe)

Complies

Mercurous Mercury (as Hg) %

0.078 w/w



H300-H310-H330-H373-H400-H410

P260-P301-P310-P304-P340-P320-P330-P361-P405-P501A

## meso-Inositol

For Biochemistry  
 $\text{C}_6\text{H}_{12}\text{O}_6$  MW =180.16

**Product code:** 101380025

**C.A.S. :** 87-89-8

**25 gr**

**EINECS :** 201-781-2

Assay %

Min 99

Heavy metals (as Pb) %

Max 0.001

Water %

Max 0.5

Melting range °C

224 227

Suitability for microbiology

Passes test

## Methanol

Analytical Reagent  
 $\text{CH}_3\text{O}$  MW =32.04

**Product code:** 213032500

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

Assay (by GC) %

Min 99.8

Water %

Max 0.1

Residue on Evaporation %

Max 0.001

Carbonyl Compounds %

Max 0.005

Acidity (meq/g) (meq/g)

Max 0.0005



H225-H301-H311-H331-H370

P210-P301-P310-P303-P361-P353-P361-P405-P501A

## Methanol

For HPLC  
 $\text{CH}_3\text{O}$  MW =32.04

**Product code:** 213012500

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

Assay (by GC)

Min 99.9

Water (KF) %

Max 0.05

Acidity (meq/g) (meq/g)

Max 0.0005

Residue on Evaporation %

Max 0.0005

UV - transmittion (1 cm, water): -

210 nm %

Min 60

220 nm %

Min 70

230 nm %

Min 80

240 nm %

Min 98

250 nm %

Min 99



H225-H301-H311-H331-H370

P210-P301-P310-P303-P361-P353-P361-P405-P501A



## Methanol

For HPLC Gradient  
CH<sub>3</sub>O MW =32.04

**Product code:** 213062500

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

|                                   |             |
|-----------------------------------|-------------|
| Assay (by GC) %                   | Min 99.9    |
| Water (KF) %                      | Max 0.05    |
| Acidity (meq/g)                   | Max 0.0005  |
| Residue on Evaporation %          | Max 0.0005  |
| UV - transmittance (1 cm, water): |             |
| 210 nm %                          | Min 65      |
| 220 nm %                          | Min 75      |
| 230 nm %                          | Min 90      |
| 240 nm %                          | Min 98      |
| 250 nm %                          | Min 99      |
| Gradient specifications (235 nm)  |             |
| Largest peak (mAU)                | Max 2       |
| Baseline drift (mAU)              | Max 15      |
| Filtration (0,2 um)               | passes test |



H225-H301-H311-H331-H370  
P210-P301-P310-P303-P361-P353-P361-P405-P501A

## Methanol

LC-MSChrom  
CH<sub>3</sub>O MW =32.04

**Product code:** 201122500

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

|                                                          |             |
|----------------------------------------------------------|-------------|
| Assay (by GC) %                                          | Min 99.9    |
| Water (KF) %                                             | Max 0.05    |
| Acidity (meq/g)                                          | Max 0.0005  |
| Residue on Evaporation %                                 | Max 0.0005  |
| UV - transmittance (1 cm, water):                        |             |
| 210 nm %                                                 | Min 65      |
| 220 nm %                                                 | Min 75      |
| 230 nm %                                                 | Min 90      |
| 240 nm %                                                 | Min 98      |
| 250 nm %                                                 | Min 99      |
| Gradient specifications (235 nm)                         |             |
| Largest peak (mAU)                                       | Max 2       |
| Magnesium (Mg) (ppm)                                     | Max 0.1     |
| Potassium (K) (ppm)                                      | Max 0.1     |
| Sodium (Na) (ppm)                                        | Max 0.1     |
| Calcium (Ca) (ppm)                                       | Max 0.1     |
| Filtration (0.2 um)                                      | passes test |
| Interfering of peak caused by impurities determined as : |             |
| - Lindan (GC/ECD) max 10ng/l lub paration                |             |
| (GC/NPD) max 10ng/l                                      | passes test |



H225-H301-H311-H331-H370  
P210-P301-P310-P303-P361-P353-P361-P405-P501A

## Methanol

Laboratory Reagent  
CH<sub>3</sub>O MW =32.04

**Product code:** 213042500

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

|                          |                  |
|--------------------------|------------------|
| Assay (by GC) %          | Min 99           |
| Water %                  | Max 0.3          |
| Residue on evaporation % | Max 0.005        |
| Acidity (meq/g)          | Max 0.0005 meq/g |



H225-H301-H311-H331-H370  
P210-P301-P310-P303-P361-P353-P361-P405-P501A

## Methanol

PESTICrom  
CH<sub>3</sub>O MW =32.04

**Product code:** 212992500

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

|                                                          |             |
|----------------------------------------------------------|-------------|
| Assay (by GC)                                            | Min 99.9    |
| Water (KF) %                                             | Max 0.1     |
| Acidity (meq/g) (meq/g)                                  | Max 0.0005  |
| Residue on Evaporation %                                 | Max 0.0005  |
| Interfering of peak caused by impurities determined as : |             |
| - Lindan (GC/ECD) max 10ng/l lub paration                |             |
| (GC/NPD) max 10ng/l                                      | passes test |



H225-H301-H311-H331-H370  
P210-P301-P310-P303-P361-P353-P361-P405-P501A

## Methanol

For UV Spectroscopy  
CH<sub>3</sub>O MW =32.04

**Product code:** 213021000

**C.A.S. :** 67-56-1

**2.5 L**

**EINECS :** 200-659-6

|                                                          |             |
|----------------------------------------------------------|-------------|
| Assay %                                                  | Min 99.7    |
| IR Spectrum                                              | Passes test |
| Water %                                                  | Max 0.03    |
| Non volatile substances %                                | Max 0.0005  |
| Guaranteed transmittance in 1 cm cell; ReferenceL water: |             |
| At 210 nm %                                              | Min 20      |
| At 220 nm %                                              | Min 50      |
| At 230 nm %                                              | Min 75      |
| At 250 nm %                                              | Min 95      |
| From 260 nm %                                            | Min 98      |



H225-H301-H311-H331-H370  
P210-P301-P310-P303-P361-P353-P361-P405-P501A

## DL-Methionine

For Biochemistry  
C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>S MW =149.21

**Product code:** 504370100

**C.A.S. :** 59-51-8

**100 gr**

**EINECS :** 200-562-9

|                                                           |            |
|-----------------------------------------------------------|------------|
| Assay (HClO <sub>4</sub> titration, on dried substance) % | 99-101     |
| Chloride (Cl) %                                           | Max 0.02   |
| Sulfate (SO <sub>4</sub> ) %                              | Max 0.02   |
| Selenium (Se) %                                           | Max 0.003  |
| Heavy metals (as Pb) %                                    | Max 0.002  |
| Iron (Fe) %                                               | Max 0.001  |
| Ammonium (NH <sub>4</sub> ) %                             | Max 0.0005 |
| Loss on drying (at 105 °C) %                              | Max 0.5    |
| Sulfated ash %                                            | Max 0.1    |



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## L-Methionine

Laboratory Reagent  
 $C_5H_{11}NO_2S$  MW =149.21

**Product code:** 504130025

**C.A.S. :** 63-68-3

**25 gr**

**EINECS :** 200-562-9

|                                                    |                |
|----------------------------------------------------|----------------|
| Assay (HClO <sub>4</sub> titration) %              | Min 99         |
| Specific rotation                                  | +22.5° to +24° |
| pH 2.5% solution                                   | 5.5 - 6.5      |
| Loss on drying (at 105 °C) %                       | Max 0.3        |
| Residue on ignition (as SO <sub>4</sub> ) %        | Max 0.1        |
| Chloride (Cl) %                                    | Max 0.02       |
| Sulfate (SO <sub>4</sub> ) %                       | Max 0.03       |
| Iron (Fe) %                                        | Max 0.001      |
| Heavy metals (as Pb) %                             | Max 0.001      |
| Ammonium (NH <sub>4</sub> ) %                      | Max 0.01       |
| Foreign amino acids %                              | Max 0.3        |
| Other ninhydrin positive substances (as glycine) % | Max 0.1        |

## Methylamine soln. 40%

Laboratory Reagent  
 $CH_3N$  MW =31.07

**Product code:** 413260500

**C.A.S. :** 74-89-5

**500 ml**

**EINECS :** 200-820-0

|                     |              |
|---------------------|--------------|
| Assay About         | 40.0% w/v    |
| Wt.per ml at 15.5°C | Abt. 0.904 g |



H225-H318-H315-H332-H335  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Methyl blue

For Microscopy  
 $C_{37}H_{27}N_3O_9S_3Na_2$  MW =799.81

**Product code:** 413020025

**C.A.S. :** 28983-56-4

**25 gr**

|                                      |              |
|--------------------------------------|--------------|
| Absorption maximum in 0.005M, HCl    | 595 - 605 nm |
| Specific absorptivity in 0.005M, HCl | 675 - 1125   |
| Loss on drying (at 110°C) %          | Max 7        |
| Suitability of microscopy            | Passes test  |



H302-H315-H319-H335  
P261-P305-P351-P338

## Methyl green

For Microscopy  
 $C_{27}H_{35}Cl_2N_3ZnCl_2$  MW =608.78

**Product code:** 401000010

**C.A.S. :** 7114-03-6

**10 gr**

**EINECS :** 230-415-4

|                                |              |
|--------------------------------|--------------|
| Dye content (by titanometry) % | Min 65       |
| Absorption maxima in water     | 630 - 635 nm |
| Zinc (Zn) %                    | 7 - 11       |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Methyl orange

Analytical Reagent  
 $C_{14}H_{14}N_3NaO_3S$  MW =327.33

**Product code:** 413170100

**C.A.S. :** 547-58-0

**100 gr**

**EINECS :** 208-925-3

|                                                               |                     |
|---------------------------------------------------------------|---------------------|
| Dye content %                                                 | Min 95              |
| Solubility 0.1% in water                                      | Clear solution      |
| Transition range (pH 3.1 - 4.4)                               | Pink -Orange-Yellow |
| Absorption maxima (pH 3.1) $\lambda_1$                        | Max. 501 - 504 nm   |
| Absorption maxima (pH 4.4) $\lambda_2$                        | Max. 467 - 471 nm   |
| Absorptivity maximum (A1%/1 cm at pH 3.1, at $\lambda_1$ max) | 1050 - 1150         |
| Absorptivity maximum (A1%/1cm at pH 4.4, at $\lambda_2$ max)  | 750 - 850           |
| Loss on drying (at 110 °C) %                                  | Max 3               |



H301  
P264-P270-P301-P310-P321-P405-P501A

## Methyl red

Analytical Reagent  
 $C_{15}H_{15}N_3O_2$  MW =269.31

**Product code:** 413180025/0100

**C.A.S. :** 493-52-7

**25 gr**

**100 gr**

**EINECS :** 207-776-1

|                                             |                     |
|---------------------------------------------|---------------------|
| Identity                                    | Passes test         |
| Melting range°C                             | 179 - 182           |
| pH transition range (4.4 - 6.2)             | Red - yellow orange |
| Transition interval according to ACS        | Passes test         |
| Insoluble matter in ethanol (1 gm/l)        | Passes test         |
| Absorption maxima (buffer pH 4.5)           | 523 - 526 nm        |
| Absorption maxima (buffer pH 6.2)           | 427 - 437 nm        |
| Loss on drying (at 110 °C) %                | Max 5               |
| Residue on ignition (as SO <sub>4</sub> ) % | Max 2               |

## Methyl thymol blue

Analytical Reagent

**Product code:** 213130005

**5 gr**

|                            |                            |
|----------------------------|----------------------------|
| Appearance                 | Dark brown coloured powder |
| pH transition (4.0 - 10.0) | Red to yellow to blue      |

## Methyl violet

For Microscopy

**Product code:** 213150025

**C.A.S. :** 8004-87-3

**25 gr**

|                                          |                               |
|------------------------------------------|-------------------------------|
| Appearance                               | Dark green crystalline powder |
| Absorption maxima in ethanol             | 583 - 587 nm                  |
| Absorptivity (1%, 1 cm, $\alpha_{max}$ ) | Min 1600                      |
| Ratio $\alpha_{max}$ . P $\pm$ 15 nm     | 1.060 - 1.190                 |
| Loss on drying (at 110° C) %             | Max 10                        |



H302-H319  
P280-P264-P305-P351-P338-P301-P312-P337-P313-P501A

## Methylene blue

Analytical Reagent

$C_{16}H_{18}ClN_3S \cdot xH_2O$  MW=319.859 (Anhydrous)

**Product code:** 413120025/0100

**C.A.S. :** 61-73-4

**EINECS :** 200-515-2

25 gr  
100 gr

|                                 |             |
|---------------------------------|-------------|
| Assay %                         | 95 - 101    |
| Identity                        | Passes test |
| Solubility                      | Passes test |
| Methanol insoluble substances % | Max 1       |
| Related substances              | Passes test |
| Iron (Fe) %                     | Max 0.01    |
| Lead (Pb) %                     | Max 0.001   |
| Zinc (Zn) %                     | Max 0.001   |
| Sulfated ash (at 600°C) %       | Max 0.25    |
| Loss on drying (at 105°C) %     | 8 - 22      |



H302  
P264-P270-P301-P312-P330-P501A

## Molybdenum (IV) oxide

Laboratory Reagent

$MoO_3$  MW =143.94

**Product code:** 312540250

**C.A.S. :** 1313-27-5

**EINECS :** 215-204-7

250 gr

|                                        |          |
|----------------------------------------|----------|
| Assay (Complexometric) %               | Min 99.0 |
| Ammonium ( $NH_4$ ) %                  | Max 0.01 |
| Chloride (Cl) %                        | Max 0.05 |
| Sulfate ( $SO_4$ ) %                   | Max 0.02 |
| Iron (Fe) %                            | Max 0.02 |
| Phosphate, Arsenate, & Silicate (as) % | Max 0.02 |



H300-H319-H335-H351  
P261-P280-P301-P310-P305-P351-P338-P405-P501A

## Methyl-iso-butyl ketone

Analytical Reagent

$(CH_3)_2CHCH_2COCH_3$  MW =100.16

**Product code:** 204440500

**C.A.S. :** 108-10-1

**EINECS :** 203-550-1

500 ml

|                                    |               |
|------------------------------------|---------------|
| Assay (GC) %                       | Min 99        |
| Wt. per ml at 20°C                 | 0.799 - 0.802 |
| Refractive index ( $n_{20}$ ) °C/D | 1.395 - 1.397 |
| Water %                            | Max 0.05      |
| Acidity ( $CH_3COOH$ ) %           | Max 0.001     |
| Non volatile matter %              | Max 0.001     |
| Copper (Cu) %                      | Max 0.00005   |
| Iron (Fe) %                        | Max 0.00005   |
| Lead (Pb) %                        | Max 0.00005   |



H225-H332-H319-H335  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Molybdic acid

Analytical Reagent

$H_2MoO_4$

**Product code:** 212580100

**C.A.S. :** 7782-91-4

**EINECS :** 231-970-5

100 gr

|                                               |            |
|-----------------------------------------------|------------|
| Assay (as $MoO_3$ ) %                         | Min 85     |
| Insoluble in dilute $NH_4OH$ %                | Max 0.01   |
| Chloride (Cl) %                               | Max 0.002  |
| Arsenate phosphate & silicate (as $SiO_2$ ) % | Max 0.001  |
| Phosphate ( $PO_4$ ) %                        | Max 0.0005 |
| Sulfate ( $SO_4$ ) %                          | Max 0.002  |
| Heavy metals (as Pb) %                        | Max 0.003  |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Molecular sieves 4A

Laboratory Reagent

**Product code:** 513040250

**C.A.S. :** 1318-02-1

**EINECS :** 215-283-8

250 gr

|                               |            |
|-------------------------------|------------|
| Equilibrium $H_2O$ capacity % | About 22   |
| Water content (as shipped) %  | Max 1.5    |
| Nominal pore diameter         | 4 Angstrom |

## Molecular sieve 5A°

Laboratory Reagent

**Product code:** 513050250

250 gr

|                               |                        |
|-------------------------------|------------------------|
| Bulk density                  | 43 lb/cu ft.           |
| Heat adsorption               | Max 1800 btu/lb $H_2O$ |
| Equilibrium $H_2O$ capacity % | About 21.5             |
| Nominal pore diameter         | 5 Angstrom             |

## Morpholine

For Synthesis

$C_4H_9NO$  MW =87.12

**Product code:** 312550500

**C.A.S. :** 110-91-8

**EINECS :** 203-815-1

500 ml

|                                  |                 |
|----------------------------------|-----------------|
| Assay (GC) %                     | Min 98.5        |
| Wt. per ml at 20 °C              | 0.998 - 1.000 g |
| Refractive index ( $n_{20}$ ) °D | 1.453 - 1.455   |
| Water %                          | Max 0.5         |



H314-H226-H302-H312-H332  
P210-P241-P303-P361-P353-P305-P351-P338-P405-P501

## Motility Nitrate Medium

For Microbiology

**Product code:** DM2580500

500 gr

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Peptic digest of animal tissue | 5.000 G/L                                                   |
| Beef extract                   | 3.000 G/L                                                   |
| Galactose                      | 5.000 G/L                                                   |
| Potassium nitrate              | 1.000 G/L                                                   |
| Di-Sodium phosphate            | 2.500 G/L                                                   |
| Agar                           | 3.000 G/L                                                   |
| Final pH (at 25°C)             | 7.4 ± 0.2                                                   |
| pH range                       | 7.20 - 7.60                                                 |
| Reaction                       | reaction of 1.95% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |

## D.P.X. Mountant

For Microscopy

**Product code:** 504310250

**C.A.S. :** 130-12-2

**250 ml**

**EINECS :** 219-441-7

Colour

Water white

Refractive index (n<sub>20</sub> °C\D)

1.515 - 1.525

Natural drying time

40mins



H225-H304-H312-H332-H315-H319-H336-H360Df-H371-H373-H400  
P201-P210-P260-P273-P280-P301-P310

## Mueller Hinton agar

For Microbiology

**Product code:** DM2280500

**500 gr**

Beef, infusion from

300.000 G/L

Casein acid hydrosate

17.500 G/L

Starch

1.500 G/L

Agar

17.000 G/L

Final pH (at 25°C)

7.3 ± 0.2

Reaction

reaction of 3.80% w/v aqueous solution at 25°C

## Murexide

Analytical Reagent

$C_8H_8N_6O_6$  MW =284.19

**Product code:** 513090025

**C.A.S. :** 3051-09-0

**25 gr**

**EINECS :** 221-266-6

Absorption maxima (0.001% in H<sub>2</sub>O)

About 521nm

Specific absorption (At 521nm; 1%, 1cm, water)

Min 300

Sulfated ash %

Max 1.0

Loss on drying (105 °C) %

Max 2.0

## Myristic acid

Laboratory Reagent

$C_{14}H_{28}O_2$  MW =228.38

**Product code:** 513070500

**C.A.S. :** 544-63-8

**500 gr**

**EINECS :** 208-875-2

Assay %

Min 98

Melting range °C

51 - 54



H302-H315-H319-H317-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501



**Finding  
US** on the web

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## Naphthalene

Analytical Reagent  
 $C_{10}H_8$  MW=128.17

**Product code:** 514220500

**C.A.S. :** 91-20-3

**500 gr**

**EINECS :** 202-049-5

Assay (GC) %  
Melting point °C

Min 99.7  
79.5 81



H228-H351-H400-H410-H302  
P210-P280-P281-P301-P312-P405-P501A

## 1-Naphthylamine

Laboratory Reagent  
 $C_{10}H_9N$  MW =143.19

**Product code:** 514070500

**C.A.S. :** 134-32-7

**500 gr**

**EINECS :** 205-138-7

Assay (By GC) %  
Melting point °C

Min 98.0  
47 - 50



H350-H302-H411  
P281-P273-P301-P312-P308-P313-P405-P501A

## Naphthol green B

For Microscopy  
 $C_{30}H_{15}FeN_3Na_3O_{15}S_3$  MW =878.450

**Product code:** 514210025

**C.A.S. :** 19381-50-1

**25 gr**

**EINECS :** 243-010-2

Appearance Dark green powder  
Absorption maxima in water 710 - 720 nm  
Absorptivity (A 1 cm 1%  $\lambda$  max. water, on dried substance) Min 100  
Loss on drying (at 105 °C) % Max 10

## Nessler's reagent

Laboratory Reagent

**Product code:** 514110250

**C.A.S. :** 7783-33-7

**250 ml**

**EINECS :** 231-990-4

Appearance Pale yellow colored solution  
Sensitivity to ammonia Passes test



H300-H310-H330-H373-H400-H410  
P260-P301-P310-P304-P340-P320-P330-P361-P405-P501A

## 1-Naphthol

Analytical Reagent  
 $C_{10}H_8O$  MW =144.17

**Product code:** 514090100

**C.A.S. :** 90-15-3

**100 gr**

**EINECS :** 201-969-4

Assay % Min 99  
Melting point °C 95 - 97  
Insoluble matter in methanol % Max 0.01  
Iron (Fe) % Max 0.001  
Chloride (Cl) % Max 0.005  
Heavy metals (as Pb) % Max 0.001  
2-Naphthol % Max 0.2  
Naphthalene % Max 0.2  
Water % Max 0.2  
Sulfated ash % Max 0.01



H318-H302-H312-H335-H315  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Neutral Red C.I.50040

Analytical Reagent  
 $C_{15}H_{17}ClN_4$  MW =288.78

**Product code:** 414180010/0025

**C.A.S. :** 553-24-2

**10 gr  
25 gr**

**EINECS :** 209-035-8

Dye content (Spectrophotometry) % Min 60  
Transition range (pH 6.8 - 8.0) Violet Red - Yellow  
Solubility 0.1% (in 50% EtOH) Clear solution  
Absorption Maximum (50 % EtOH + 2 ml Acetic Acid  $\lambda$  max.) 539 - 544 nm  
Absorptivity (A1%, 1cm in 50% EtOH + 2 ml Acetic Acid, at  $\lambda$  max.) Min 900  
Loss on drying (at 110 °C) % Min 12

## Nickel chloride hexahydrate

Analytical Reagent  
 $NiCl_2 \cdot 6H_2O$  MW =237.69

**Product code:** 314040500

**C.A.S. :** 7791-20-0

**500 gr**

**EINECS :** 231-743-0

Assay % Min 98.0  
pH (5% in water) 3.5 to 5.5  
Sulfate ( $SO_4$ ) % Max 0.005  
Lead (Pb) % Max 0.002  
Calcium (Ca) % Max 0.005  
Iron (Fe) % Max 0.001  
Cobalt (Co) % Max 0.005  
Copper (Cu) % Max 0.001  
Sodium (Na) % Max 0.01  
Zinc (Zn) % Max 0.001



H350-H302-H411  
P281-P273-P301-P312-P308-P313-P405-P501A

## 2-Naphthol

Analytical Reagent  
 $C_{10}H_8O$  MW =144.17

**Product code:** 514080100

**C.A.S. :** 135-19-3

**100 gr**

**EINECS :** 205-182-7

Assay % Min 99  
Melting point °C 121 - 123  
Chloride (Cl) % Max 0.005  
Heavy metals (as Pb) % Max 0.001  
Iron (Fe) % Max 0.001  
1-Naphthol % Max 0.1  
Naphthalene % Max 0.1  
Sulfated ash % Max 0.01  
Water % Max 0.2



H400-H302-H332  
P261-P273-P301-P312-P304-P312-P501

## Nickel oxide

Laboratory Reagent  
Ni<sub>2</sub>O<sub>3</sub> MW=165.39

**Product code:** 313500250  
**C.A.S. :** 1314-06-3

**250 gr**

Assay (complexometric, Ni) %  
Lead (Pb) %  
Iron (Fe) %  
Cobalt (Co) %  
Zinc (Zn) %

Min 75  
Max 0.005  
Max 0.05  
Max 0.03  
Max 0.05



H317-H350i-H372-H413  
P201-P280-P308-P313

## Nitrobenzene

Analytical Reagent  
C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub> MW =123.11

**Product code:** 214130500  
**C.A.S. :** 98-95-3

**500 ml**

**EINECS :** 202-716-0

Assay (GC) %  
Chloride (Cl) %  
Residue after evaporation %  
Water (KF) %

Min 99  
Max 0.0002  
Max 0.005  
Max 0.15



H301-H311-H330-H372-H351-H361-H411  
P260-P301-P310-P304-P340-P320-P330-P361-P405-P501

## Nickel sulfate hexahydrate

Laboratory Reagent  
NiSO<sub>4</sub>·6H<sub>2</sub>O MW =262.86

**Product code:** 314270500  
**C.A.S. :** 10101-97-0

**500 gr**

**EINECS :** 232-104-9

Assay %  
Chloride (Cl) %  
Alkalis (as Na) %  
Cobalt (Co) %  
Iron (Fe) %  
Heavy metals (as Pb) %

Min 98.0  
Max 0.01  
Max 0.1  
Max 0.5  
Max 0.02  
Max 0.04



H350-H302-H411  
P281-P273-P301-P312-P308-P313-P405-P501A

## P-Nitrophenol

Analytical Reagent  
C<sub>6</sub>H<sub>5</sub>NO<sub>3</sub> MW =139.11

**Product code:** 301710025  
**C.A.S. :** 100-02-7

**25 gr**

**EINECS :** 202-811-7

pH 5.4–7.5  
Melting range  
Absorption maxima  
-buffer pH  
-buffer pH

Colourless to Yellow  
110 - 114°C  
316 - 320 nm  
398 - 402 nm



H373-H302-H312-H332  
P260-P261-P280-P304-P340-P301-P312-P501A

## Nicotinamide

For Biochemistry  
C<sub>6</sub>H<sub>6</sub>N<sub>2</sub>O MW=122.13

**Product code:** 314300100  
**C.A.S. :** 98-92-0

**100 gr**

**EINECS :** 202-713-4

Assay %  
Melting range °C  
Chloride (Cl) %  
Heavy metals (as Pb) %  
Nicotinic acid (TLC) %  
Loss on drying at 105°C %

99 - 101  
128 - 131  
Max. 0.002  
Max. 0.003  
Max. 0.2  
Max. 0.2



H319  
P280-P264-P305-P351-P338-P337-P313

## Nitroso-R-Salt

Analytical Reagent  
C<sub>10</sub>H<sub>5</sub>O<sub>8</sub>NS<sub>2</sub>Na<sub>2</sub> MW =377.3

**Product code:** 316350025  
**C.A.S. :** 525-05-3

**25 gr**

**EINECS :** 208-369-1

Assay (iodometric) %  
Residue on ignition (as SO<sub>4</sub>) %  
Loss on drying %  
Suitability for determination of cobalt  
Sensitivity to cobalt

Min 90  
Max 37  
Max 1  
Passes test  
1:1000000



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Nitric Acid 1 M (1N)

Standardized solution  
traceable to NIST  
HNO<sub>3</sub> MW =63.01

**Product code:** BVS05110  
**C.A.S. :** 7697-37-2

**1 L**

**EINECS :** 231-714-2

Tolerance  
Appearance  
The standardisation material (sodium carbonate, anhydrous)  
is traceable to NIST Standard Reference Material  
Tris(hydroxymethyl)amino methane, number 723e.

+/- 0.0005M  
Clear solution



H314  
P280 P305-P351-P338-P310

## Nutrient agar

For Microbiology

**Product code:** DM2290500

**500 gr**

Peptic digest of animal tissue  
Sodium chloride  
Beef extract  
Yeast extract  
Agar  
Final pH (at 25°C)  
PH  
Reaction

5.000 G/L  
5.000 G/L  
1.500 G/L  
1.500 G/L  
15.000 G/L  
7.4 ± 0.2 G/L  
7.4 ± 0.2  
reaction of 2.8% w/v aqueous solution at 25°C

## N-Octanol

For Synthesis  
 $C_8H_{18}O$  MW =130.23

**Product code:** 520430500

**C.A.S. :** 111-87-5

**500 ml**

**EINECS :** 203-917-6

Assay %  
Water %  
Free acid (octanoic acid) %  
Density (d20 deg/4 °C)  
Foreign alcohols %  
Substances discoloured by sulfuric acid

Min 99  
Max 0.1  
Max 0.005  
0.824 - 0.827  
Max 1  
Passes test



H315-H319-H227  
P261-P305-P351-P338

## Oleic acid

Laboratory Reagent  
 $C_{18}H_{34}O_2$  MW =282.47

**Product code:** 115010500

**C.A.S. :** 112-80-1

**500 ml**

**EINECS :** 204-007-1

Sulfated ash %  
Mineral acids  
Iodine number  
Neutral fat, mineral oils  
Acid number  
Peroxide value

Max 0.01  
Passes test  
89 - 95  
Passes test  
196 - 204  
Max 10



H315-H319  
P280-P305-P351-P338-P362-P321-P332-P313-P337-P313

## Orange G indicator

For Microscopy  
 $C_{16}H_{10}N_2Na_2O_7S_2$  MW =452.37

**Product code:** 415070025

**C.A.S. :** 1936-15-8

**25 gr**

**EINECS :** 217-705-6

Dye content %  
Absorption maxima in water  
Absorptivity  
Loss on drying %

Min 80  
476 - 481 nm  
Min 380  
Max 15

## Orcein

For Microscopy

**Product code:** 520280005

**C.A.S. :** 1400-62-0

**5gr**

**EINECS :** 215-750-6

Appearance  
Absorption in NaOH 0.01 Mol/L  
Specific absorptivity  
Loss on drying %

Black colored powder  
575 - 582 nm  
Min 500  
Max 7



H301  
P264-P270-P301-P310-P321-P405-P501A

## Oxalic Acid 0.5 M (1N)

Standardized solution  
traceable to NIST  
 $C_2H_2O_4 \cdot 2H_2O$  MW =126.07

**Product code:** BVS06010

**C.A.S. :** 6153-56-6

**1 L**

**EINECS :** 205-634-3

Tolerance  
Appearance  
The standardisation material (sodium hydroxide) is a secondary reference material traceable to NIST Standard Reference Material potassium hydrogen phthalate, number 841.

+/- 0.0005M  
Clear solution



H314-H302-H312  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

## Oxalic acid

Analytical Reagent  
 $C_2H_2O_4 \cdot 2H_2O$  MW =126.07

**Product code:** 115030500

**C.A.S. :** 6153-56-6

**500 gr**

**EINECS :** 205-634-3

Assay %  
Insoluble matter %  
Chloride (Cl) %  
Sulfate ( $SO_4$ ) %  
Total nitrogen (N) %  
Reaction against sulfuric acid  
Heavy metals (as Pb) %  
Calcium (Ca) %  
Iron (Fe) %  
Residue on ignition (at 800 °C) %

Min 99.5  
Max 0.005  
Max 0.0005  
Max 0.005  
Max 0.001  
Passes test  
Max 0.0005  
Max 0.001  
Max 0.0002  
Max 0.01



H314-H302-H312  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A



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## Paraffin liquid

For IR Spectroscopy

**Product code:** 203330100

**C.A.S. :** 8012-95-1

**100 ml**

**EINECS :** 232-384-2

Wt.per ml at 20 °C

About 0.88 g

## Paraffin liquid colourless, heavy

Laboratory Reagent

**Product code:** 203100500

**C.A.S. :** 8012-95-1

**500 ml**

**EINECS :** 232-384-2

Wt.per ml at 20 °C

0.860 - 0.890 g

Kinematic viscosity at 37.8 °C

Min 64 cS

## Paraffin liquid colourless, light

Laboratory Reagent

**Product code:** 203320500

**C.A.S. :** 8012-95-1

**500 ml**

**EINECS :** 232-384-2

Wt.per ml at 20 °C

0.830 - 0.860 g

Kinematic viscosity at 37.8 °C

Max 30 cS

## Paraffin wax 56-58 °C

For Histology

**Product code:** 203910500

**C.A.S. :** 8002-74-2

**500 gr**

Solidification point °C

56 - 58

Impurities with an acidic or alkaline reaction

Passes test

Aromatic polycyclic hydrocarbons

Passes test

Reaction against sulfuric acid

Passes test

Sulfated ash %

Max 0.05

## Paraffin wax 58-60 °C

Laboratory Reagent

**Product code:** 203171000

**C.A.S. :** 8002-74-2

**1 kg**

Solidification point °C

58 - 60

## Paraffin wax 60-62 °C

Laboratory Reagent

**Product code:** 203281000

**C.A.S. :** 8002-74-2

**1 kg**

Solidification point °C

60 - 62

Sulfated ash %

Max 0.05

## Paraffin wax pellets 58 °C-60 °C

Laboratory Reagent

**Product code:** 203311000

**C.A.S. :** 8002-74-2

**1 kg**

Melting range °C

58 - 60

Residue on ignition %

Max 0.05

## Paraformaldehyde

Laboratory Reagent  
(H.CHO)<sub>n</sub>

**Product code:** 203190500

**C.A.S. :** 30525-89-4

**500 gr**

**EINECS :** 200-001-8

Assay (as HCHO) %

Min 95

Identity

Passes test

Sulfated ash %

Max 0.05

Heavy metals (as Pb) %

Max 0.001



H314-H318-H228-H351-H302-H332-H317

P210-P260-P303-P361-P353-P305-P351-P338-P405-P501A

## Patent blue V (VF)

For Microscopy

C<sub>27</sub>H<sub>31</sub>N<sub>2</sub>NaO<sub>6</sub>S<sub>2</sub> MW=566.66

**Product code:** 313350010

**C.A.S. :** 129-17-9

**10 gr**

Appearance

Dark blue powder

Absorption maxima

637 - 639 nm

## Patton and Reeder's reagent

Analytical Reagent

C<sub>21</sub>H<sub>14</sub>N<sub>2</sub>O<sub>7</sub>S MW=438.42

**Product code:** 203240025

**C.A.S. :** 3737-95-9

**25 gr**

**EINECS :** 223-117-0

Absorption maxima

569 - 572 nm

Absorptivity (at λ<sub>max</sub>)

Min 250

Loss on drying at 135 °C %

Max 7

Suitability as complexometric indicator

Passes test



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Pectin

Laboratory Reagent

MW=300000-1000000

**Product code:** 203160100

**C.A.S. :** 9000-69-5

**100 gr**

**EINECS :** 232-553-0

Water %

Max 10.0

Ash %

Max 7.0

Degree of esterification %

63 - 66

Methoxyl content %

6-10

## n-Pentane 95 %

For Synthesis

C<sub>5</sub>H<sub>12</sub> MW=72.15

**Product code:** 516321000

**C.A.S. :** 109-66-0

**1 L**

**EINECS :** 203-692-4

Assay %

Min 95.0

Water (KF) %

Max 0.05

Acidity (meq/g) (meq/g)

Max 0.0005

Residue on Evaporation %

Max. 0.005



H225-H304-H336-H411-EUH066

P210-P243-P280-P273-P301-P331-P304-P340-P309-P310

## Pepsin 1:3000

Laboratory Reagent

**Product code:** 516190100

**C.A.S. :** 9001-75-6

**100 gr**

**EINECS :** 232-629-3

Appearance Off white to pale yellow coloured powder  
Loss on drying % Max 5  
Ash % Max 5  
pH 3 - 5  
Activity 0.8 Anson units/mg



H334-H315-H319-H335

P285-P261-P280-P305-P351-P338-P405-P501A

## Peptone

For Microbiology

**Product code:** DM1050500

**500 gr**

pH (1% w/v aqueous solution) 25°C 5.5 - 7.21

Typical cultural response after 18 - 48 hours at 35 °C

E. Coli good  
Klebsiella good  
Proteus good  
S.aureus good

Biochemical test

MR + ve  
VP ± ve  
Nitrate reduction - ve  
Carbohydrate fermentation - ve

## Peptone M

For Microbiology

**Product code:** DM1170500

**500 gr**

pH (1% w/v aqueous solution) 25°C 7.0 ± 0.5

Typical cultural response after 18 - 48 hours at 35 °C

E. Coli luxuriant  
Salmonella luxuriant  
S.aureus luxuriant  
Pseudomonas luxuriant

## Peptone Water

For Microbiology

**Product code:** DM2300500

**500 gr**

Peptic digest of animal tissue 10.000 G/L  
Sodium chloride 5.000 G/L  
Final pH (at 25°C) 7.2 ± 0.2  
pH range 7.00 - 7.40  
Reaction reaction of 1.5% w/v aqueous solution at 25°C pH 7.2 ± 0.2

## Perchloric Acid 0.1 M (0.1N)

Standardized solution  
traceable to NIST  
HClO<sub>4</sub> MW =100.46

**Product code:** BVS06101

**C.A.S. :** 7601-90-3

**1 L**

**EINECS :** 231-512-4



H272-H314-H226

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Perchloric Acid 1 M (1N)

Standardized solution  
traceable to NIST  
HClO<sub>4</sub> MW =100.46

**Product code:** BVS06110

**C.A.S. :** 7601-90-3

**1 L**

**EINECS :** 231-512-4



H272-H314-H226

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Perchloric acid 70%

Analytical Reagent  
HClO<sub>4</sub> MW=100.46

**Product code:** 116000500

**C.A.S. :** 7601-90-3

**500 ml**

**EINECS :** 231-512-4

Assay % 69 - 72  
Chloride (Cl) % Max 0.001  
Heavy metals (as Pb) % Max 0.0001  
Iron (Fe) % Max 0.0001  
Nitrogen compound (N) % Max 0.001  
Residue after ignition % Max 0.003  
Silicate & phosphate (as SiO<sub>2</sub>) % Max 0.0005  
Sulfate (SO<sub>4</sub>) % Max 0.001



H272-H314-H226

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Periodic acid

Analytical Reagent  
H<sub>5</sub>IO<sub>6</sub> MW=227.94

**Product code:** 101090025

**C.A.S. :** 10450-60-9

**25 gr**

**EINECS :** 233-937-0

Assay % Min 99.5  
Residue on ignition % Max 0.2  
Foreign halogens (as Cl) % Max 0.01  
Iodide (I) % Max 0.001  
Sulfate (SO<sub>4</sub>) % Max 0.01



H272-H314

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Periodic acid

For Synthesis  
H<sub>5</sub>IO<sub>6</sub> MW=227.94

**Product code:** 101520025

**C.A.S. :** 10450-60-9

**25 gr**

**EINECS :** 233-937-0

Assay (iodometric) % Min 99  
Melting point °C 124 - 127



H272-H314

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Petroleum ether 40 - 60 °C

Analytical Reagent

**Product code:** 216132500

**C.A.S. :** 101316-46-5

**2.5 L**

**EINECS :** 232-453-7

|                          |            |
|--------------------------|------------|
| Water %                  | Max 0.02   |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Residue on Evaporation % | Max 0.001  |
| Sulfur Compounds %       | Max 0.002  |



H224-H340-H350-H304

P210-P280-P301-P310-P303-P361-P353-P405-P501A

## Petroleum ether 40 - 60 °C

For Synthesis

**Product code:** 216052500

**C.A.S. :** 101316-46-5

**2.5 L**

**EINECS :** 232-453-7

|                          |            |
|--------------------------|------------|
| Water %                  | Max 0.05   |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Residue on Evaporation % | Max 0.005  |



H224-H340-H350-H304

P210-P280-P301-P310-P303-P361-P353-P405-P501A

## Petroleum ether 40 - 60 °C

For HPLC & Spectroscopy

**Product code:** 216161000

**C.A.S. :** 8032-32-4

**1 L**

**EINECS :** 232-453-7

|                                                               |           |
|---------------------------------------------------------------|-----------|
| Moisture content (KF) %                                       | Max 0.01  |
| Non volatile Matter ~ %                                       | 0.0001    |
| Maximum Absorption (1 cm cell v/s H <sub>2</sub> O) at 200 nm | Max 1.000 |



H224-H340-H350-H304

P210-P280-P301-P310-P303-P361-P353-P405-P501A

## 1,10-Phenanthroline hydrochloride

Analytical Reagent  
C<sub>12</sub>H<sub>9</sub>ClN<sub>2</sub>·H<sub>2</sub>O MW=234.69

**Product code:** 216070005

**C.A.S. :** 18851-33-7

**5 gr**

**EINECS :** 223-325-1

|                         |          |
|-------------------------|----------|
| Assay (by acidimetry) % | Min 99.5 |
| Water %                 | 7-8.5    |
| Sulfated ash %          | Max 0.2  |



H315-H319

P280-P302-P352-P305-P351-P338-P321-P332-P313-P362

## 1,10-Phenanthroline monohydrate

Analytical Reagent  
C<sub>12</sub>H<sub>9</sub>N<sub>2</sub>·H<sub>2</sub>O MW=198.23

**Product code:** 216120005

**C.A.S. :** 5144-89-8

**5 gr**

**EINECS :** 200-629-2

|                                       |              |
|---------------------------------------|--------------|
| Assay %                               | Min 99.5     |
| Melting point °C                      | 17 - 119     |
| Molar adsorptivity of fe complex      | Min 11700    |
| Sensitivity to iron                   | 1:10,000,000 |
| Melting point (on dried substance) °C | 117 - 120    |
| Sulfated ash %                        | Max 0.05     |



H304-H400-H410

P273-P264-P301-P321-P405-P501

## Phenol

For Molecular Biology

C<sub>6</sub>H<sub>5</sub>O MW =94.11

**Product code:** 516230100

**C.A.S. :** 108-95-2

**100 gr**

**EINECS :** 203-632-7

|                              |                                    |
|------------------------------|------------------------------------|
| Assay %                      | Min 99.5                           |
| Solubility                   | 5% aq. solution clear & colourless |
| Melting point °C             | 40 - 41                            |
| pH 5% aqueous solution       | 4.5 - 6.0                          |
| Non volatile matter %        | Max 0.01                           |
| Chloride (Cl) %              | Max 0.0005                         |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005                          |
| Iron (Fe) %                  | Max 0.0001                         |
| Heavy metals (as Pb) %       | Max 0.0001                         |
| Water %                      | Max 0.02                           |



H301-H311-H314-H341-H373

P262-P280-P302-P352-P305-P351-P338-P309-P310

## Phenol detached crystals

Analytical Reagent

C<sub>6</sub>H<sub>5</sub>OH MW =94.11

**Product code:** 516130500

**C.A.S. :** 108-95-2

**500 gr**

**EINECS :** 203-632-7

|                       |             |
|-----------------------|-------------|
| Assay (GC) %          | Min 99.5    |
| Freezing point °C     | 40 41       |
| Insoluble matter %    | Max 0.005   |
| Non-volatile matter % | Max 0.02    |
| Chloride (Cl) %       | Max 0.0005  |
| Iron (Fe) %           | Max 0.0001  |
| Lead (Pb) %           | Max 0.001   |
| Tarry matter          | No reaction |
| Water %               | Max 0.5     |



H301-H311-H331-H314-H341-H373

P260-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Phenol red agar base

For Microbiology

|                      |                                                            |               |
|----------------------|------------------------------------------------------------|---------------|
| <b>Product code:</b> | DM2590500                                                  | <b>500 gr</b> |
| Proteose peptone     | 20.000 G/L                                                 |               |
| Beef extract         | 10.000 G/L                                                 |               |
| Agar                 | 10.000 G/L                                                 |               |
| Sodium chloride      | 10.000 G/L                                                 |               |
| Phenol red           | 11.000 G/L                                                 |               |
| Final pH (at 25°C)   | 7.4 ± 0.2                                                  |               |
| pH range             | 7.20 - 7.60                                                |               |
| Reaction             | reaction of 3.1% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |               |

## Phenol red

Analytical Reagent

C<sub>19</sub>H<sub>14</sub>O<sub>2</sub>S MW=354.38

|                                |                         |              |
|--------------------------------|-------------------------|--------------|
| <b>Product code:</b>           | 416060005/0025          | <b>5 gr</b>  |
| <b>C.A.S. :</b>                | 143-74-8                | <b>25 gr</b> |
| <b>EINECS :</b>                | 205-609-7               |              |
| Transition range pH 6.5 - 8.2  | Yellow - Reddish violet |              |
| Absorption Max.(pH 6.5) λ1max. | 430 - 435 nm            |              |
| Absorption Max.(pH 8.2) λ2max. | 557 - 560 nm            |              |
| Loss on drying (at 110 °C) %   | Max 5                   |              |



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Phenol red dextrose agar

For Microbiology

|                      |                                                            |               |
|----------------------|------------------------------------------------------------|---------------|
| <b>Product code:</b> | DM2600500                                                  | <b>500 gr</b> |
| Proteose peptone     | 10.000 G/L                                                 |               |
| Beef extract         | 1.000 G/L                                                  |               |
| Agar                 | 15.000 G/L                                                 |               |
| Sodium chloride      | 5.000 G/L                                                  |               |
| Dextrose             | 10.000 G/L                                                 |               |
| Phenol red           | 0.025 G/L                                                  |               |
| Final pH (at 25°C)   | 7.4 ± 0.2                                                  |               |
| pH range             | 7.20 - 7.60                                                |               |
| Reaction             | reaction of 4.1% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |               |

## Phenol red lactose agar

For Microbiology

|                      |             |               |
|----------------------|-------------|---------------|
| <b>Product code:</b> | DM2610500   | <b>500 gr</b> |
| Proteose peptone     | 10.000 G/L  |               |
| Beef extract         | 1.000 G/L   |               |
| Agar                 | 15.000 G/L  |               |
| Sodium chloride      | 5.000 G/L   |               |
| Lactose              | 10.000 G/L  |               |
| Phenol red           | 0.025 G/L   |               |
| Final pH (at 25°C)   | 7.4 ± 0.2   |               |
| pH range             | 7.20 - 7.60 |               |

## DL-Phenylalanine

For Biochemistry

C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub> MW=165.19

|                                                    |           |              |
|----------------------------------------------------|-----------|--------------|
| <b>Product code:</b>                               | 516270025 | <b>25 gr</b> |
| <b>C.A.S. :</b>                                    | 150-30-1  |              |
| <b>EINECS :</b>                                    | 205-756-7 |              |
| Assay %                                            | Min 99    |              |
| Heavy metals (as Pb) %                             | Max 0.001 |              |
| Ammonium (NH <sub>4</sub> ) %                      | Max 0.01  |              |
| Foreign amino acids %                              | Max 0.3   |              |
| Other ninhydrin-positive substances (as glycine) % | Max 0.1   |              |

## L-Phenylalanine

For Biochemistry

C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub> MW=165.19

|                                                                    |                   |              |
|--------------------------------------------------------------------|-------------------|--------------|
| <b>Product code:</b>                                               | 516280025         | <b>25 gr</b> |
| <b>C.A.S. :</b>                                                    | 63-91-2           |              |
| <b>EINECS :</b>                                                    | 200-568-1         |              |
| Assay (HClO <sub>4</sub> titration) %                              | Min 99            |              |
| Specific optical rotation (20 g/l, water calc.on dried substances) | - 33.0° to -34.7° |              |
| Heavy metals (as Pb) %                                             | Max 0.001         |              |
| Ammonium (NH <sub>4</sub> ) %                                      | Max 0.01          |              |
| Foreign amino acids %                                              | Max 0.3           |              |
| Other ninhydrin-positive substances (as glycine) %                 | Max 0.1           |              |

## Phloxin B

For Microscopy

|                                    |              |              |
|------------------------------------|--------------|--------------|
| <b>Product code:</b>               | 516220025    | <b>25 gr</b> |
| <b>C.A.S. :</b>                    | 18472-84-2   |              |
| Absorption maxima (In 50% ethanol) | 546 - 550 nm |              |
| Absorptivity (1cm, λ max)          | Min 750.0    |              |
| Loss on drying at 110°C %          | Max 10.0     |              |

## Phosphomolybdic acid

Analytical Reagent

C<sub>10</sub>H<sub>8</sub>N<sub>2</sub> MW =156.19

|                               |            |              |
|-------------------------------|------------|--------------|
| <b>Product code:</b>          | 116030025  | <b>25 gr</b> |
| <b>C.A.S. :</b>               | 51429-74-4 |              |
| <b>EINECS :</b>               | 234-713-5  |              |
| Insoluble matter %            | Max 0.01   |              |
| Chloride (Cl) %               | Max 0.02   |              |
| Sulfate (SO <sub>4</sub> ) %  | Max 0.025  |              |
| Heavy metals (Pb) %           | Max 0.005  |              |
| Iron (Fe) %                   | Max 0.005  |              |
| Calcium (Ca) %                | Max 0.02   |              |
| Ammonium (NH <sub>4</sub> ) % | Max 0.01   |              |



H272-H314

P221-P280-P305-P351-P338-P308-P313-P501a

## Phosphoric acid

Analytical Reagent

H<sub>3</sub>PO<sub>4</sub> MW =98

|                                            |              |              |
|--------------------------------------------|--------------|--------------|
| <b>Product code:</b>                       | 116162500    | <b>2.5 L</b> |
| <b>C.A.S. :</b>                            | 7664-38-2    |              |
| <b>EINECS :</b>                            | 231-633-2    |              |
| Assay %                                    | Min 85       |              |
| Wt.per ml at 20 °C                         | About 1.71 g |              |
| Chloride (Cl) %                            | Max 0.0005   |              |
| Nitrate (NO <sub>3</sub> ) %               | Max 0.0005   |              |
| Silicate (SiO <sub>2</sub> ) %             | Max 0.025    |              |
| Sulfate (SO <sub>4</sub> ) %               | Max 0.002    |              |
| Arsenic (As) %                             | Max 0.0001   |              |
| Calcium (Ca) %                             | Max 0.004    |              |
| Copper (Cu) %                              | Max 0.0005   |              |
| Iron (Fe) %                                | Max 0.0015   |              |
| Lead (Pb) %                                | Max 0.001    |              |
| Magnesium (Mg) %                           | Max 0.004    |              |
| Manganese (Mn) %                           | Max 0.0005   |              |
| Potassium (K) %                            | Max 0.005    |              |
| Substances reducing KMnO <sub>4</sub> %    | Max 0.001    |              |
| Volatile acids (as CH <sub>3</sub> COOH) % | Max 0.001    |              |
| Zinc (Zn) %                                | Max 0.002    |              |



H314

P260-P301-P330-P331-P303-P361-P353-P305-P351-P338-P405-P501

## Phosphoric acid

Laboratory Reagent  
 $\text{H}_3\text{PO}_4$  MW =98

**Product code:** 116042500

**C.A.S. :** 7664-38-2

**2.5 L**

**EINECS :** 231-633-2

|                                                          |            |
|----------------------------------------------------------|------------|
| Assay (acidimetric) %                                    | 85 - 88    |
| Volatile acids (as $\text{CH}_3\text{COOH}$ ) %          | Max 0.001  |
| Lead (Pb) %                                              | Max 0.001  |
| Chloride (Cl) %                                          | Max 0.005  |
| Fluoride (F) %                                           | Max 0.001  |
| Nitrate ( $\text{NO}_3$ ) %                              | Max 0.0005 |
| Potassium (K) %                                          | Max 0.005  |
| Phosphite, hypophosphite (as $\text{H}_3\text{PO}_3$ ) % | Max 0.02   |
| Sulfate ( $\text{SO}_4$ ) %                              | Max 0.005  |
| Heavy metals (as Pb) %                                   | Max 0.001  |
| Arsenic (As) %                                           | Max 0.0002 |
| Iron (Fe) %                                              | Max 0.005  |
| Copper (Cu) %                                            | Max 0.002  |
| Sodium (Na) %                                            | Max 0.05   |
| Zinc (Zn) %                                              | Max 0.002  |



H314  
P260-P301-P330-P331-P303-P361-P353-P305-P351-P338-P405-P501

## Phosphorous oxychloride

Laboratory Reagent  
 $\text{POCl}_3$  MW =153.33

**Product code:** 116080500

**C.A.S. :** 10025-87-3

**500 ml**

**EINECS :** 233-046-7

|                                                        |             |
|--------------------------------------------------------|-------------|
| Assay %                                                | Min 99      |
| Copper (Cu) %                                          | Max 0.00005 |
| Nickel (Ni) %                                          | Max 0.0001  |
| Iron (Fe) %                                            | Max 0.00005 |
| Lead (Pb) %                                            | Max 0.0001  |
| Density ( $d_{20}^{\circ}\text{C}/4^{\circ}\text{C}$ ) | About 1.7   |



H330-H302-H372-H314  
P260-P303-P361-P353-P304-P340-P305-P351-P338-P320-P330-P405-P501A

## Phosphotungstic acid

Analytical Reagent  
 $\text{H}_3\text{PO}_4 \cdot 12\text{WO}_3 \cdot x\text{H}_2\text{O}$  W=2880.20(anhy)

**Product code:** 116140100

**C.A.S. :** 12501-23-4

**100 gr**

|                                           |           |
|-------------------------------------------|-----------|
| Chloride (Cl) %                           | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) %               | Max 0.01  |
| Total nitrogen (N) %                      | Max 0.002 |
| Lead (Pb) %                               | Max 0.002 |
| Iron (Fe) %                               | Max 0.002 |
| Potassium (K) %                           | Max 0.02  |
| Copper (Cu) %                             | Max 0.001 |
| Sodium (Na) %                             | Max 0.02  |
| Loss on ignition at $750^{\circ}\text{C}$ | Max 17    |



H314  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

## Phthalic acid

Analytical Reagent  
 $\text{C}_6\text{H}_4\text{O}_4$  MW=166.13

**Product code:** 116100500

**C.A.S. :** 88-99-3

**500 gr**

**EINECS :** 201-873-2

|                                                             |           |
|-------------------------------------------------------------|-----------|
| Assay (alkalimetric) %                                      | Min 99.5  |
| Substances insoluble in $\text{Na}_2\text{CO}_3$ solution % | Max 0.05  |
| Iron (Fe) %                                                 | Max 0.001 |
| Chloride (Cl) %                                             | Max 0.001 |
| Sulfate ( $\text{SO}_4$ ) %                                 | Max 0.005 |
| Nitrate ( $\text{NO}_3$ ) %                                 | Max 0.005 |
| Heavy metals (as Pb) %                                      | Max 0.001 |
| Water %                                                     | Max 0.2   |
| Sulfated ash %                                              | Max 0.02  |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Plate count agar PCA

For Microbiology

**Product code:** DM2310500

**500 gr**

|                                     |                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------|
| Casein enzymic hydrolysate          | 5.000 G/L                                                                       |
| Yeast extract                       | 2.500 G/L                                                                       |
| Dextrose                            | 1.000 G/L                                                                       |
| Agar                                | 15.000 G/L                                                                      |
| Final pH (at $25^{\circ}\text{C}$ ) | $7.0 \pm 0.2$                                                                   |
| pH range                            | 6.80 - 7.20                                                                     |
| Reaction                            | reaction of 2.35% w/v aqueous solution at $25^{\circ}\text{C}$ pH $7.0 \pm 0.2$ |

## Polyethyleneglycol 200

For Synthesis

$\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{H}$  MW=190-200

**Product code:** 504200500

**C.A.S. :** 25322-68-3

**500 ml**

**EINECS :** 203-473-3

|                                                        |               |
|--------------------------------------------------------|---------------|
| Hydroxyl number                                        | 535 - 590     |
| Density ( $d_{20}^{\circ}\text{C}/4^{\circ}\text{C}$ ) | 1.124 - 1.126 |

## Polyethyleneglycol 300

For Synthesis

**Product code:** 301470500

**C.A.S. :** 25322-68-3

**500 ml**

**EINECS :** 203-473-3

|                                                |                |
|------------------------------------------------|----------------|
| Density ( $d_{20}^{\circ}/4^{\circ}\text{C}$ ) | 1.125 - 1.127  |
| Refractive index $n_{20}^{\circ}/D$            | $\sim 1.465$   |
| Viscosity (at $20^{\circ}\text{C}$ )           | $\sim 95$ mPas |

## Polyethyleneglycol 400

For Synthesis

$\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{H}$  MW=380-420

**Product code:** 301460500

**C.A.S. :** 25322-68-3

**500 ml**

**EINECS :** 203-473-3

|                                                        |               |
|--------------------------------------------------------|---------------|
| Hydroxyl number                                        | 267 - 295     |
| Density ( $d_{20}^{\circ}\text{C}/4^{\circ}\text{C}$ ) | 1.126 - 1.128 |
| Acidity (as acetic acid) %                             | Max 0.05      |
| Viscosity (at $20^{\circ}\text{C}$ )                   | 85 - 105 cS   |

## Polyethyleneglycol 600

For Synthesis  
HO(C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>H MW=570-630

**Product code:** 301610500

**C.A.S. :** 25322-68-3

**500 ml**

**EINECS :** 203-473-3

Melting point °C 17 23  
Density (d<sub>20</sub> d°C/4°C) 1.126 - 1.128  
Refractive index n<sub>20</sub> °C/D About 1.469  
Viscosity (at 20°C) 150 - 190mPas

## Polyethyleneglycol 4000

For Synthesis  
HO(C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>H MW=3500-4000

**Product code:** 516400500

**C.A.S. :** 25322-68-3

**500 gr**

**EINECS :** 203-473-3

Appearance White to creamy white, wax-like solid or flakes  
Description White or creamy white wax like solid or flakes  
pH of 5% solution 4.5 - 7.5  
Freezing point °C 53 58  
Color of solution (20% in water) Passes test  
Arsenic (As) % Max 0.0003  
Heavy metals (as Pb) % Max 0.0005  
Sulfated ash % Max 0.1

## Polyethyleneglycol 6000

For Synthesis  
HO(C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>H MW=5000-7000

**Product code:** 516600500

**C.A.S. :** 25322-68-3

**500 gr**

**EINECS :** 203-473-3

Appearance White to creamy white, wax-like solid or flakes  
Description White or creamy white wax like solid or flakes  
pH of 5% solution 4.5 - 7.5  
Freezing point °C 56 60  
Color of solution (20% in water) Passes test  
Arsenic (As) % Max 0.0003  
Heavy metals (as Pb) % Max 0.0005  
Sulfated ash % Max 0.1

## Polyvinyl alcohol

For Synthesis  
(-C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>

**Product code:** 516170500

**C.A.S. :** 9002-89-5

**500 gr**

Degree of polymerisation 1700 - 1800  
Viscosity 25 - 32 cps  
Hydrolysis (mole %) 98 - 99  
Volatile matter % Max 5  
Ash % Max 0.7  
pH (0.2% in water) 5 - 7

## Polyvinyl pyrrolidone k-30

Laboratory Reagent  
(C<sub>6</sub>H<sub>7</sub>NO)<sub>n</sub> Avg.MW=40.000

**Product code:** 516160100

**C.A.S. :** 9003-39-8

**100 gr**

pH (5% aqueous solution) 3.0 - 7.0  
Sulfated ash % Max 0.05  
Heavy metals (Pb) % Max 0.001  
1% solids w/v aq soln viscosity % 26 - 35  
Nitrogen content (N) % 11.5 - 12.5  
Vinyl pyrrolidone % Max 0.8  
Water (KF) % Max 5.0

## Ponceau S

For Electrophoreise  
C<sub>22</sub>H<sub>12</sub>N<sub>4</sub>Na<sub>4</sub>O<sub>13</sub>S<sub>4</sub> MW=760.56

**Product code:** 416190025

**C.A.S. :** 6226-79-5

**25 gr**

**EINECS :** 228-319-2

Absorption maximum in water 517 - 523 nm  
Specific absorptivity Min 460  
Loss on drying (at 110°C) % Max 10  
Suitability for electrophoresis Passes test



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Potassium acetate

Analytical Reagent  
CH<sub>3</sub>.COOK MW=98.14

**Product code:** 314600500

**C.A.S. :** 127-08-2

**500 gr**

**EINECS :** 204-822-2

Assay % Min 99  
Insoluble matter % Max 0.005  
Reaction pH 6.5 - 9.0  
Chloride (Cl) % Max 0.001  
Phosphate (PO<sub>4</sub>) % Max 0.001  
Sulfate (SO<sub>4</sub>) % Max 0.002  
Aluminium (Al) % Max 0.0005  
Ammonium (NH<sub>4</sub>) % Max 0.0005  
Calcium (Ca) % Max 0.002  
Copper (Cu) % Max 0.0002  
Iron (Fe) % Max 0.0005  
Heavy metals (Pb) % Max 0.0005  
Magnesium (Mg) % Max 0.002  
Sodium (Na) % Max 0.03

H303  
P312

## Potassium acetate

For Molecular Biology  
CH<sub>3</sub>.COOK MW=98.14

**Product code:** 314690500

**C.A.S. :** 127-08-2

**500 gr**

**EINECS :** 204-822-2

Assay (T) % Min 99  
DNases/RNases/Proteases Not detectable  
Solubility (at 20 °C) 2530 g/L  
pH (5%; H<sub>2</sub>O at 20 °C) 7.5 - 8.5  
Chloride (Cl) % Max 0.005  
Nitrate (NO<sub>3</sub>) % Max 0.005  
Sulfate (SO<sub>4</sub>) % Max 0.001  
Arsenic (As) % Max 0.0001  
Calcium (Ca) % Max 0.001  
Copper (Cu) % Max 0.0001  
Iron (Fe) % Max 0.0005  
Sodium (Na) % Max 0.5  
Lead (Pb) % Max 0.0001  
Zinc (Zn) % Max 0.005

H303  
P312

## Potassium bicarbonate

Laboratory Reagent  
KHCO<sub>3</sub> MW=100.12

**Product code:** 314660500/1000

**C.A.S. :** 298-14-6

**EINECS :** 206-059-0

**500 gr  
1 kg**

|                                                |             |
|------------------------------------------------|-------------|
| Assay (by acidimetry) %                        | 99.5 - 101  |
| pH (1%, water)                                 | 8 - 8.6     |
| Carbonate (as K <sub>2</sub> CO <sub>3</sub> ) | Passes test |
| Chloride (Cl) %                                | Max 0.015   |
| Sulfate (SO <sub>4</sub> ) %                   | Max 0.01    |
| Arsenic (As) %                                 | Max 0.0002  |
| Heavy metals (as Pb) %                         | Max 0.0005  |
| Calcium (Ca) %                                 | Max 0.005   |
| Iron (Fe) %                                    | Max 0.001   |
| Copper (Cu) %                                  | Max 0.0005  |
| Sodium (Na) %                                  | Max 0.5     |
| Zinc (Zn) %                                    | Max 0.0025  |
| Loss on drying (silica gel) %                  | Max 0.3     |

## Potassium bromide

Laboratory Reagent  
KBr MW=119.00

**Product code:** 316510500

**C.A.S. :** 7758-02-3

**EINECS :** 231-830-3

**500 gr**

|                               |            |
|-------------------------------|------------|
| Assay (argentometric) %       | Min 99     |
| pH (5% water) %               | 5 - 8      |
| Chloride (Cl) %               | Max 0.45   |
| Iodide (I) %                  | Max 0.02   |
| Sulfate (SO <sub>4</sub> ) %  | Max 0.005  |
| Bromate (BrO <sub>3</sub> ) % | Max 0.001  |
| Heavy metals (as Pb) %        | Max 0.001  |
| Iron (Fe) %                   | Max 0.001  |
| Magnesium (Mg) %              | Max 0.002  |
| Calcium (Ca) %                | Max 0.005  |
| Barium (Ba) %                 | Max 0.0025 |
| Sodium (Na) %                 | Max 0.15   |
| Loss on drying (at 105 °C) %  | Max 0.5    |

## Potassium bromate

Analytical Reagent  
KBrO<sub>3</sub> MW=167.00

**Product code:** 314540500

**C.A.S. :** 7758-01-2

**EINECS :** 231-829-8

**500 gr**

|                              |            |
|------------------------------|------------|
| Assay (by iodometry) %       | Min 99.8   |
| pH (5% water)                | 5 - 9      |
| Insoluble matter %           | Max 0.005  |
| Bromide (Br) %               | Max 0.02   |
| Total nitrogen (N) %         | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005  |
| Heavy metals (as Pb) %       | Max 0.0005 |
| Iron (Fe) %                  | Max 0.0005 |
| Sodium (Na) %                | Max 0.01   |



H271-H301-H350  
P221-P283-P210-P301-P310-P405-P501A

## Potassium carbonate anhydrous

Analytical Reagent  
K<sub>2</sub>CO<sub>3</sub> MW=138.21

**Product code:** 316110500

**C.A.S. :** 584-08-7

**EINECS :** 209-529-3

**500 gr**

|                                          |              |
|------------------------------------------|--------------|
| Assay (after drying at 300°C) %          | 99.5 - 100.5 |
| Insoluble matter %                       | Max 0.01     |
| Loss on drying (at 300 °C) %             | Max 0.5      |
| Sulfur compounds (as SO <sub>4</sub> ) % | Max 0.004    |
| Chloride (Cl) %                          | Max 0.002    |
| Phosphate (PO <sub>4</sub> ) %           | Max 0.001    |
| Silicate (SiO <sub>2</sub> ) %           | Max 0.005    |
| Calcium (Ca) %                           | Max 0.001    |
| Iron (Fe) %                              | Max 0.0005   |
| Magnesium (Mg) %                         | Max 0.0005   |
| Sodium (Na) %                            | Max 0.02     |
| Heavy metal (as Pb) %                    | Max 0.0005   |



H302-H319  
P280-P264-P305-P351-P338-P301-P312-P337-P313-P501A

## Potassium bromide

Analytical Reagent  
KBr MW=119.00

**Product code:** 316020500

**C.A.S. :** 7758-02-3

**EINECS :** 231-830-3

**500 gr**

|                               |            |
|-------------------------------|------------|
| Assay (by argentometry) %     | Min 99.5   |
| Insoluble matter %            | Max 0.005  |
| pH (5% water) %               | 5.0 - 8.8  |
| Bromate (BrO <sub>3</sub> ) % | Max 0.001  |
| Iodate (IO <sub>3</sub> ) %   | Max 0.001  |
| Chloride (Cl) %               | Max 0.1    |
| Iodide (I) %                  | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) %  | Max 0.005  |
| Total Nitrogen (N) %          | Max 0.001  |
| Heavy metals (as Pb) %        | Max 0.0005 |
| Barium (Ba) %                 | Max 0.002  |
| Calcium (Ca) %                | Max 0.002  |
| Iron (Fe) %                   | Max 0.0005 |
| Magnesium (Mg) %              | Max 0.001  |
| Sodium (Na) %                 | Max 0.02   |
| Loss on drying (at 105 °C) %  | Max 0.5    |

## Potassium Chloride 1 M (1N)

Standardized solution  
traceable to NIST  
KCl MW=74.55

**Product code:** BVS07010

**C.A.S. :** 7447-40-7

**EINECS :** 231-211-8

**1 L**



## Potassium chloride

Analytical Reagent  
KCl MW=74.55

**Product code:** 316030500

**C.A.S. :** 7447-40-7

**500 gr**

**EINECS :** 231-211-8

|                                     |            |
|-------------------------------------|------------|
| Assay %                             | Min 99.5   |
| pH of 5% w/v aqueous solution       | 5.0 - 8.0  |
| Loss on drying (at 150°C) %         | Max. 0.2   |
| Insoluble matter %                  | Max 0.003  |
| Acidity (as HCl) %                  | Max 0.003  |
| Alkalinity (as KOH) %               | Max 0.005  |
| Sulfate (SO <sub>4</sub> ) %        | Max 0.003  |
| Total Nitrogen (N) %                | Max 0.001  |
| Arsenic (As) %                      | Max 0.0001 |
| Aluminium (Al) %                    | Max 0.0001 |
| Barium (Ba) %                       | Max 0.001  |
| Bromide (Br) %                      | Max 0.01   |
| Iodide (I) %                        | Max 0.002  |
| Phosphate (PO <sub>4</sub> ) %      | Max 0.0005 |
| Calcium (Ca) %                      | Max 0.001  |
| Copper (Cu) %                       | Max 0.0002 |
| Iron (Fe) %                         | Max 0.0002 |
| Lead (Pb) %                         | Max 0.0002 |
| Magnesium (Mg) %                    | Max 0.0005 |
| Magnesium & alkaline earth metals % | Max 0.02   |

## Potassium Chromate 0.0333M (0.1N)

Standardized solution  
traceable to NIST  
K<sub>2</sub>CrO<sub>4</sub> MW=194.20

**Product code:** BVS08001

**C.A.S. :** 7789-00-6

**1 L**

**EINECS :** 232-140-5



H340-H350-H400-H410-H315-H319-H317-H335  
P261-P280-P281-P305-P351-P338-P405-P501A

## Potassium chromate

Analytical Reagent  
K<sub>2</sub>CrO<sub>4</sub> MW=194.20

**Product code:** 316080500

**C.A.S. :** 7789-00-6

**500 gr**

**EINECS :** 232-140-5

|                              |           |
|------------------------------|-----------|
| Assay (by iodometry) %       | Min 99.5  |
| Water insoluble matter %     | Max 0.005 |
| pH (5% water)                | 9.0 - 9.8 |
| Chloride (Cl) %              | Max 0.001 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01  |
| Lead (Pb) %                  | Max 0.005 |
| Calcium (Ca) %               | Max 0.005 |
| Sodium (Na) %                | Max 0.05  |



H340-H350-H400-H410-H315-H319-H317-H335  
P261-P280-P281-P305-P351-P338-P405-P501A

## Potassium dichromate

Analytical Reagent  
K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> MW =294.18

**Product code:** 316040500

**C.A.S. :** 7778-50-9

**500 gr**

**EINECS :** 231-906-6

|                              |           |
|------------------------------|-----------|
| Assay (by iodometry) %       | Min 99.9  |
| Insoluble matter %           | Max 0.005 |
| Chloride (Cl) %              | Max 0.001 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005 |
| Lead (Pb) %                  | Max 0.005 |
| Calcium (Ca) %               | Max 0.002 |
| Iron (Fe) %                  | Max 0.002 |
| Copper (Cu) %                | Max 0.001 |
| Sodium (Na) %                | Max 0.02  |
| Loss on drying (at 105°C) %  | Max 0.05  |



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411  
P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Potassium Dichromate 0.0167M (0.1N)

Standardized solution  
traceable to NIST  
K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> MW =294.18

**Product code:** BVS08101

**C.A.S. :** 7778-50-9

**1 L**

**EINECS :** 231-906-6



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411  
P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Potassium dichromate 0.167M (1N)

Standardized solution  
traceable to NIST  
K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> MW =294.18

**Product code:** BVS08110

**C.A.S. :** 7778-50-9

**1 L**

**EINECS :** 231-906-6



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411  
P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Potassium dichromate

Laboratory Reagent  
K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> MW =294.18

**Product code:** 316540500/1000

**C.A.S. :** 7778-50-9

**500 gr  
1 kg**

**EINECS :** 231-906-6

|                              |           |
|------------------------------|-----------|
| Assay (Iodometric) %         | Min 99.5  |
| Chloride (Cl) %              | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01  |
| Calcium (Ca) %               | Max 0.005 |
| Sodium (Na) %                | Max 0.2   |
| Loss on drying at 105°C %    | Max 0.5   |



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411  
P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

Potassium dihydrogen orthophosphate  
anhydrous

Analytical Reagent  
 $\text{KH}_2\text{PO}_4$  MW =136.09

**Product code:** 316090500

**C.A.S. :** 7778-77-0

**500 gr**

**EINECS :** 231-913-4

|                                    |           |
|------------------------------------|-----------|
| Assay (by acidimetry) %            | Min 99.5  |
| pH (5% water @ 25 °C)              | 4.1 - 4.5 |
| Insoluble matter in water %        | Max 0.01  |
| Chloride (Cl) %                    | Max 0.001 |
| Sulfate ( $\text{SO}_4$ ) %        | Max 0.003 |
| Total Nitrogen (N) %               | Max 0.001 |
| Heavy metals (as Pb) %             | Max 0.001 |
| Iron (Fe) %                        | Max 0.001 |
| Sodium (Na) %                      | Max 0.005 |
| Loss on drying @ 105°C for 2 hrs % | Max 0.2   |



H315-H319  
P280-P305-P351-P338-P362-P321-P332-P313-P337-P313

Potassium dihydrogen orthophosphate  
anhydrous

Laboratory Reagent  
 $\text{KH}_2\text{PO}_4$  MW =136.09

**Product code:** 316550500

**C.A.S. :** 7778-77-0

**500 gr**

**EINECS :** 231-913-4

|                                                 |            |
|-------------------------------------------------|------------|
| Assay (by acidimetry, on dried substance) %     | 98 - 100.5 |
| Insoluble substance %                           | Max 0.2    |
| pH (10% water)                                  | 4.2 - 4.5  |
| Chloride (Cl) %                                 | Max 0.02   |
| Sulfate ( $\text{SO}_4$ ) %                     | Max 0.03   |
| Fluoride (F) %                                  | Max 0.001  |
| Heavy metals (as Pb) %                          | Max 0.001  |
| Arsenic (As) %                                  | Max 0.0002 |
| Iron (Fe) %                                     | Max 0.001  |
| Copper (Cu) %                                   | Max 0.0025 |
| Sodium (Na) %                                   | Max 0.1    |
| Zinc (Zn) %                                     | Max 0.0025 |
| Reducing substances by $\text{KMnO}_4$ (as O) % | Max 0.04   |
| Substances insoluble in water %                 | Max 0.2    |
| Loss on drying (at 130 °C) %                    | Max 1      |



H315-H319  
P280-P305-P351-P338-P302-P352-P321-P362-P332-P313

Potassium ferricyanide

Analytical Reagent  
 $\text{K}_3[\text{Fe}(\text{CN})_6]$  MW=329.25

**Product code:** 316050500

**C.A.S. :** 13746-66-2

**500 gr**

**EINECS :** 237-323-3

|                                                        |           |
|--------------------------------------------------------|-----------|
| Assay (by iodometry) %                                 | Min 99.0  |
| Insoluble matter in water %                            | Max 0.005 |
| Chloride (Cl) %                                        | Max 0.01  |
| Hexacyanoferrate (II) ( $\text{Fe}(\text{CN})_6$ -4) % | Max 0.05  |
| Sulfate ( $\text{SO}_4$ ) %                            | Max 0.01  |

H303  
P312

Potassium ferricyanide

Laboratory Reagent  
 $\text{K}_3[\text{Fe}(\text{CN})_6]$  MW=329.25

**Product code:** 316560500

**C.A.S. :** 13746-66-2

**500 gr**

**EINECS :** 237-323-3

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 98.0  |
| Insoluble matter %          | Max 0.025 |
| Chloride (Cl) %             | Max 0.05  |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.02  |

H303  
P312

Potassium ferrocyanide trihydrate

Analytical Reagent  
 $\text{K}_4[\text{Fe}(\text{CN})_6] \cdot 3\text{H}_2\text{O}$  MW=422.39

**Product code:** 316060500

**C.A.S. :** 14459-95-1

**500 gr**

**EINECS :** 237-722-2

|                             |            |
|-----------------------------|------------|
| Assay (by cerimetry) %      | 98.5 - 102 |
| Insoluble matter %          | Max 0.005  |
| Chloride (Cl) %             | Max 0.01   |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01   |

H402-H412  
P273-P501A

Potassium fluoride anhydrous

Analytical Reagent  
KF MW =58.10

**Product code:** 314670500

**C.A.S. :** 7789-23-3

**500 gr**

**EINECS :** 232-151-5

|                                          |           |
|------------------------------------------|-----------|
| Assay %                                  | Min 99    |
| Insoluble matter %                       | Max 0.005 |
| Acidity %                                | Max 0.05  |
| Alkalinity %                             | Max 0.05  |
| Chloride (Cl) %                          | Max 0.005 |
| Hexafluoro silicate ( $\text{SiF}_6$ ) % | Max 0.05  |
| Sulfate ( $\text{SO}_4$ ) %              | Max 0.005 |
| Iron (Fe) %                              | Max 0.001 |
| Heavy metals (as Pb) %                   | Max 0.001 |



H301-H311-H331  
P261-P280-P301-P310-P361-P405-P501A

di-Potassium hydrogen orthophosphate  
anhydrous

For Molecular Biology  
 $\text{K}_2\text{HPO}_4$  MW =174.18

**Product code:** 304090500

**C.A.S. :** 7758-11-4

**500 gr**

**EINECS :** 231-834-5

|                                 |            |
|---------------------------------|------------|
| Assay (Acidimetric) %           | Min 99.50  |
| Chloride (Cl) %                 | Max 0.003  |
| Iron (Fe) %                     | Max 0.001  |
| Abs. (A 0.1 mol/L/cm) at 260 nm | Max 0.01   |
| Abs. (A 0.1 mol/L/cm) at 280 nm | Max 0.01   |
| Heavy metals (as Pb) %          | Max 0.0005 |



H319  
P280-P264-P305-P351-P338-P337-P313

di-Potassium hydrogenphosphate anhydrous Analytical Reagent  
 $K_2HPO_4$  MW =174.18

**Product code:** 304110500

**C.A.S. :** 7758-11-4

**500 gr**

**EINECS :** 231-834-5

Assay % Min 99  
 pH of 5% solution at 25 °C 8.7 - 9.6  
 Chloride (Cl) % Max 0.003  
 Heavy metals (as Pb) % Max 0.0005  
 Insoluble matter % Max 0.01  
 Iron (Fe) % Max 0.001  
 Loss on drying at 105 °C Max 1  
 Nitrogen compounds (as N) % Max 0.001  
 Sodium (Na) % Max 0.5  
 Sulfate ( $SO_4$ ) % Max 0.005



H319  
 P280-P264-P305-P351-P338-P337-P313

Potassium hydrogen phthalate Analytical Reagent  
 $CH_3COOK$  MW=98.14

**Product code:** 314650500

**C.A.S. :** 877-24-7

**500 gr**

**EINECS :** 212-889-4

Assay (after drying) % Min 99.5  
 Insoluble matter % Max 0.005  
 Loss on drying (at 110 °C) % Max 0.2  
 Chloride (Cl) % Max 0.002  
 Phthalic acid % Max 0.005  
 Sulfate ( $SO_4$ ) % Max 0.005  
 Copper (Cu) % Max 0.0005  
 Iron (Fe) % Max 0.0005  
 Lead (Pb) % Max 0.0005  
 Sodium (Na) % Max 0.01

H303  
 P312

Potassium Hydroxide 0.1 M (0.1N) Standardized solution  
 traceable to NIST  
 KOH MW =56.11

**Product code:** BVS09001

**C.A.S. :** 1310-58-3

**1 L**

**EINECS :** 215-181-3



H314-H302  
 P260-P301-P330-P331-P303+P361-P353-P305-P351-P338-P405-P501

Potassium Hydroxide 1 M (1N) Standardized solution  
 traceable to NIST  
 KOH MW =56.11

**Product code:** BVS09010

**C.A.S. :** 1310-58-3

**1 L**

**EINECS :** 215-181-3



H314-H302  
 P260-P301-P330-P331-P303+P361-P353-P305-P351-P338-P405-P501

Potassium hydroxide pellets Analytical Reagent  
 KOH MW =56.11

**Product code:** 316250500/1000

**C.A.S. :** 1310-58-3

**500 gr  
 1 kg**

**EINECS :** 215-181-3

Assay of KOH % 85 - 100.5  
 Identification Passes test  
 Appearance of solution Passes test  
 Carbonate (as  $K_2CO_3$ ) % Max 1  
 Chloride (Cl) % Max 0.002  
 Sulfate ( $SO_4$ ) % Max 0.0005  
 Phosphate ( $PO_4$ ) % Max 0.0005  
 Silicate ( $SiO_2$ ) % Max 0.005  
 Total nitrogen (N) % Max 0.0003  
 Heavy metals (Pb) % Max 0.0005  
 Iron (Fe) % Max 0.001  
 Arsenic (As) % Max 0.0001  
 Magnesium (Mg) % Max 0.005  
 Copper (Cu) % Max 0.001  
 Calcium (Ca) % Max 0.001  
 Nickel (Ni) % Max 0.0005  
 Sodium (Na) % Max 0.5



H314-H302  
 P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

Potassium hydroxide pellets Laboratory Reagent  
 KOH MW =56.11

**Product code:** 316290500/5000

**C.A.S. :** 1310-58-3

**500 gr  
 5 kg**

**EINECS :** 215-181-3

Assay of KOH % Min 85  
 Carbonate (as  $K_2CO_3$ ) % Max 2.0  
 Chloride (Cl) % Max 0.01  
 Sulfate ( $SO_4$ ) % Max 0.003  
 Phosphate ( $PO_4$ ) % Max 0.002  
 Silicate ( $SiO_2$ ) % Max 0.01  
 Total Nitrogen (N) % Max 0.0005  
 Heavy metals (Pb) % Max 0.001  
 Iron (Fe) % Max 0.001  
 Arsenic (As) % Max 0.0004  
 Calcium (Ca) % Max 0.002  
 Sodium (Na) % Max 0.5



H314-H302  
 P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A



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## Potassium iodate

Analytical Reagent  
KIO<sub>3</sub> MW =214.00

**Product code:** 316280100

**C.A.S. :** 7758-05-6

**100 gr**

**EINECS :** 231-831-9

|                                                |            |
|------------------------------------------------|------------|
| Assay %                                        | Min 99.5   |
| pH (5% in water)                               | 5.0 – 8.0  |
| Chloride, chloride, bromide, Bromate (as Cl) % | Max 0.02   |
| Iodide (I) %                                   | Max 0.002  |
| Sulfate (SO <sub>4</sub> ) %                   | Max 0.006  |
| Total nitrogen (N) %                           | Max 0.002  |
| Heavy metals (as Pb) %                         | Max 0.0006 |
| Iron (Fe) %                                    | Max 0.001  |
| Sodium (Na) %                                  | Max 0.005  |
| Loss on drying at 130°C %                      | Max 0.05   |



H272-H315-H319-H335  
P221-P210-P220-P305-P351-P338-P405-P501A

## Potassium Iodide 0.1 M (0.1N)

Standardized solution  
traceable to NIST  
KI MW =166.00

**Product code:** BVS10001

**C.A.S. :** 7681-11-0

**1 L**

**EINECS :** 231-659-4

## Potassium Iodide 1 M (1N)

Standardized solution  
traceable to NIST  
KI MW =166.00

**Product code:** BVS10010

**C.A.S. :** 7681-11-0

**1 L**

**EINECS :** 231-659-4

## Potassium iodide

Analytical Reagent  
KI MW=166.00

**Product code:** 315090250

**C.A.S. :** 7681-11-0

**250 gr**

**EINECS :** 213-659-4

|                                |            |
|--------------------------------|------------|
| Assay (after drying) %         | Min 99.0   |
| Insoluble matter %             | Max 0.005  |
| Loss on drying at 120°C %      | Max 0.2    |
| pH of 5 % solution             | 6.0 - 9.2  |
| Chloride & bromide %           | Max 0.01   |
| Iodate (IO <sub>3</sub> ) %    | Max 0.0003 |
| Nitrogen compounds (N) %       | Max 0.001  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.005  |
| Barium (Ba) %                  | Max 0.002  |
| Calcium (Ca) %                 | Max 0.002  |
| Iron (Fe) %                    | Max 0.0003 |
| Heavy metals (Pb) %            | Max 0.0005 |
| Magnesium (Mg) %               | Max 0.001  |
| Sodium (Na) %                  | Max 0.005  |

## Potassium iodide

Laboratory Reagent  
KI MW=166.00

**Product code:** 315120250

**C.A.S. :** 7681-11-0

**250 gr**

**EINECS :** 213-659-4

|                                                  |              |
|--------------------------------------------------|--------------|
| Assay (after drying) %                           | 99.0 – 100.5 |
| Insoluble matter in water %                      | Max 0.01     |
| Nitrate, Nitrite and ammonia                     | Passes test  |
| Chloride and bromide (as Cl) %                   | Max. 0.05    |
| Free alkali (as K <sub>2</sub> CO <sub>3</sub> ) | Passes test  |
| Sulfate (SO <sub>4</sub> ) %                     | Max.0.015    |
| Iodate (IO <sub>3</sub> ) %                      | Max.0.0003   |
| Thiosulfate (S <sub>2</sub> O <sub>3</sub> ) %   | Max.0.005    |
| Heavy metal (as Pb) %                            | Max.0.001    |
| Iron (Fe) %                                      | Max.0.001    |
| Loss on drying at 105°C %                        | Max.1.0      |

## Potassium metabisulfite

Laboratory Reagent  
K<sub>2</sub>S<sub>2</sub>O<sub>5</sub> MW =222.31

**Product code:** 316130500

**C.A.S. :** 16731-55-8

**500 gr**

**EINECS :** 240-795-3

|                             |             |
|-----------------------------|-------------|
| Assay (iodometric) %        | 95 - 99.9   |
| Iodometric, SO <sub>2</sub> | 54.8 - 57.6 |
| Appearance of solution      | Passes test |
| pH (5% in water)            | 3 - 4.5     |
| Chloride (Cl) %             | Max 0.05    |
| Heavy metals (as Pb) %      | Max 0.001   |
| Thiosulfate                 | Passes test |
| Copper (Cu) %               | Max 0.0025  |
| Zinc (Zn) %                 | Max 0.0025  |
| Iron (Fe) %                 | Max 0.002   |
| Selenium (Se) %             | Max 0.0005  |
| Arsenic (As) %              | Max 0.0002  |
| Mercury (Hg) %              | Max 0.0001  |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Potassium nitrate

Analytical Reagent  
KNO<sub>3</sub> MW =101.11

**Product code:** 316140500

**C.A.S. :** 7757-79-1

**500 gr**

**EINECS :** 231-818-8

|                                  |             |
|----------------------------------|-------------|
| Assay (as KNO <sub>3</sub> ) %   | 99 - 100.5  |
| Identity                         | Passes test |
| Appearance of solution           | Passes test |
| Reducing substance               | Passes test |
| pH (5% solution at 20 °C)        | 4.5 - 8.5   |
| Acidity or alkalinity            | Passes test |
| Chloride (Cl) %                  | Max 0.001   |
| Chlorate and perchlorate (as Cl) | Passes test |
| Sulfate (SO <sub>4</sub> ) %     | Max 0.003   |
| Phosphate (PO <sub>4</sub> ) %   | Max 0.0005  |
| Heavy metals (as Pb) %           | Max 0.0005  |
| Arsenic (As) %                   | Max 0.0003  |
| Iron (Fe) %                      | Max 0.0003  |
| Calcium (Ca) %                   | Max 0.001   |
| Sodium (Na) %                    | Max 0.02    |
| Ammonium (NH <sub>4</sub> ) %    | Max 0.001   |
| Iodate (IO <sub>3</sub> ) %      | Max 0.0005  |
| Nitrite (NO <sub>2</sub> ) %     | Max 0.001   |
| Loss on drying (at 105 °C) %     | Max 0.5     |



H272-H303  
P221-P210-P220-P280-P312-P501A

## Potassium nitrate

Laboratory Reagent

$\text{KNO}_3$  MW =101.11

**Product code:** 316220500/5000

**C.A.S. :** 7757-79-1

**EINECS :** 231-818-8

500 gr  
5 kg

Assay (by acidimetry) %  
pH (5% water)  
Chloride and perchlorate (as Cl) %  
Sulfate ( $\text{SO}_4$ ) %  
Ammonium ( $\text{NH}_4$ ) %  
Arsenic (As) %  
Lead (Pb) %  
Iron (Fe) %

Min 99  
4.5 - 8.5  
Max 0.007  
Max 0.01  
Max 0.004  
Max 0.0003  
Max 0.005  
Max 0.001



H272-H303  
P221-P210-P220-P280-P312-P501A

## Potassium oxalate monohydrate Analytical Reagent

$\text{C}_2\text{K}_2\text{O}_4 \cdot \text{H}_2\text{O}$  MW =184.23

**Product code:** 314570500

**C.A.S. :** 6487-48-5

**EINECS :** 209-506-8

500 gr

Assay (Manganometry) %  
Insoluble matter %  
pH (5% water)  
Chloride (Cl) %  
Sulfate ( $\text{SO}_4$ ) %  
Ammonium ( $\text{NH}_4$ ) %  
Heavy metals (as Pb) %  
Iron (Fe) %  
Sodium (Na) %

99.5 - 101  
Max 0.01  
7 - 8.5  
Max 0.001  
Max 0.01  
Max 0.002  
Max 0.001  
Max 0.001  
Max 0.02



H302-H312  
P280-P301-P312-P302-P352-P312-P322-P501a

## Potassium Permanganate 0.02 M (0.1N) Standardized solution

traceable to NIST  
 $\text{KMnO}_4$  MW =158.03

**Product code:** BVS11001

**C.A.S. :** 7722-64-7

**EINECS :** 231-760-3

1 L

Tolerance  
Appearance  
The standardisation material (sodium thiosulphate) is a secondary reference material traceable to NIST Standard Reference Material arsenic trioxide, number 83d.

+/- 0.0005M  
Purple solution



H400-H410-H302  
P221-P210-P220-P280-P301-P312-P501a

## Potassium Permanganate 0.2 M (1N) Standardized solution

traceable to NIST  
 $\text{KMnO}_4$  MW =158.03

**Product code:** BVS11010

**C.A.S. :** 7722-64-7

**EINECS :** 231-760-3

1 L

Tolerance  
Appearance  
The standardisation material (sodium thiosulphate) is a secondary reference material traceable to NIST Standard Reference Material arsenic trioxide, number 83d.

+/- 0.0005M  
Purple solution



H411  
P273

## Potassium permanganate

Analytical Reagent

$\text{KMnO}_4$  MW=158.03

**Product code:** 316270500/1000

**C.A.S. :** 7722-64-7

**EINECS :** 231-760-3

500 gr  
1 kg

Assay (Iodometric) %  
Loss on drying (on silica gel) %  
Insoluble matter %  
Chloride (Cl) %  
Nitrogen compounds (N) %  
Sulfate ( $\text{SO}_4$ ) %  
Iron (Fe) %  
Lead (Pb) %

99.5 - 100.5  
Max 0.5  
Max 0.2  
Max 0.005  
Max 0.005  
Max 0.01  
Max 0.002  
Max 0.002



H400-H410-H302  
P221-P210-P220-P280-P301-P312-P501a

## Potassium persulfate

Analytical Reagent

$\text{K}_2\text{S}_2\text{O}_8$  MW=270.31

**Product code:** 316190500

**C.A.S. :** 7727-21-1

**EINECS :** 232-140-5

500 gr

Assay %  
Insoluble matter %  
Chloride (Cl) %  
Ammonium ( $\text{NH}_4$ ) %  
Arsenic (As) %  
Copper (Cu) %  
Iron (Fe) %  
Lead (Pb) %  
Manganese (Mn) %

Min 98  
Max 0.003  
Max 0.002  
Max 0.0005  
Max 0.00004  
Max 0.001  
Max 0.0005  
Max 0.001  
Max 0.0001



H334-H315-H319-H317-H272-H302-H335  
P221-P210-P285-P305-P351-P338-P405-P501A

## Potassium persulfate

Laboratory Reagent  
K<sub>2</sub>O<sub>8</sub>S<sub>2</sub> MW=270.31

**Product code:** 316590500

**C.A.S. :** 7727-21-1

**500 gr**

**EINECS :** 232-140-5

|                        |            |
|------------------------|------------|
| Assay (iodometric) %   | Min 98     |
| Chloride (Cl) %        | Max 0.005  |
| Heavy metals (as Pb) % | Max 0.005  |
| Iron (Fe) %            | Max 0.002  |
| Manganese (Mn) %       | Max 0.0005 |



H334-H315-H319-H317-H272-H302-H335  
P221-P210-P285-P305-P351-P338-P405-P501A

## Potassium sodium tartrate tetrahydrate

Analytical Reagent  
C<sub>4</sub>H<sub>4</sub>KNaO<sub>6</sub>·4H<sub>2</sub>O MW=282.22

**Product code:** 316170500

**C.A.S. :** 6381-59-5

**500 gr**

**EINECS :** 206-156-8

|                                |            |
|--------------------------------|------------|
| Assay %                        | 99 - 102   |
| Insoluble matter %             | Max 0.005  |
| pH (5% solution at 20 °C)      | 7 - 8.5    |
| Chloride (Cl) %                | Max 0.0005 |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.005  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.001  |
| Ammonium (NH <sub>4</sub> ) %  | Max 0.002  |
| Heavy metals (as Pb) %         | Max 0.0005 |
| Iron (Fe) %                    | Max 0.0005 |
| Copper (Cu) %                  | Max 0.0005 |
| Calcium (Ca) %                 | Max 0.004  |

## Potassium sodium tartrate tetrahydrate

Laboratory Reagent  
C<sub>4</sub>H<sub>4</sub>KNaO<sub>6</sub>·4H<sub>2</sub>O MW=282.22

**Product code:** 316600500

**C.A.S. :** 6381-59-5

**500 gr**

**EINECS :** 205-698-1

|                              |            |
|------------------------------|------------|
| Assay %                      | Min 98     |
| Acidity or alkalinity %      | Max 1 ml N |
| Chloride (Cl) %              | Max 0.005  |
| Sulfate (SO <sub>4</sub> ) % | Max 0.05   |

## Potassium sulfate

Analytical Reagent  
K<sub>2</sub>SO<sub>4</sub> MW=174.27

**Product code:** 316210500

**C.A.S. :** 7778-80-5

**500 gr**

**EINECS :** 231-915-5

|                         |            |
|-------------------------|------------|
| Assay (by acidimetry) % | Min 99     |
| Insoluble matter %      | Max 0.01   |
| pH (5% water)           | 5.5 - 7.5  |
| Chloride (Cl) %         | Max 0.0005 |
| Total Nitrogen (N) %    | Max 0.0005 |
| Heavy metals (as Pb) %  | Max 0.0005 |
| Arsenic (As) %          | Max 0.0002 |
| Calcium (Ca) %          | Max 0.005  |
| Iron (Fe) %             | Max 0.0005 |
| Magnesium (Mg) %        | Max 0.002  |
| Sodium (Na) %           | Max 0.02   |

## Potassium Thiocyanate 0.1 M (0.1N)

Standardized solution  
traceable to NIST  
KSCN MW=97.18

**Product code:** BVS12001

**C.A.S. :** 333-20-0

**1 L**

**EINECS :** 206-370-1



H302-H312-H332-H412  
P261-P280-P304-P340-P301-P312-P312-P501A

## Potassium thiocyanate

Laboratory Reagent  
KSCN MW=97.18

**Product code:** 316620500

**C.A.S. :** 333-20-0

**500 gr**

**EINECS :** 206-370-1

|                               |           |
|-------------------------------|-----------|
| Assay (by argentometry) %     | Min 98    |
| Chloride (Cl) %               | Max 0.01  |
| Sulfate (SO <sub>4</sub> ) %  | Max 0.05  |
| Sulfide (S) %                 | Max 0.002 |
| Heavy metals (as Pb) %        | Max 0.001 |
| Ammonium (NH <sub>4</sub> ) % | Max 0.05  |
| Iron (Fe) %                   | Max 0.005 |



H302-H312-H332-H412  
P261-P280-P304-P340-P301-P312-P312-P501A

## Potato dextrose agar

For Microbiology

**Product code:** DM2620500

**500 gr**

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Potatoes, infusion from | 200.000 G/L                                                 |
| Dextrose                | 20.000 G/L                                                  |
| Agar                    | 15.000 G/L                                                  |
| Final pH (at 25°C)      | 5.6 ± 0.2 G/L                                               |
| pH range                | 6.60 - 7.00                                                 |
| Reaction                | reaction of 2.43% w/v aqueous solution at 25°C pH 6.8 ± 0.2 |

## L-Proline

For Biochemistry  
C<sub>5</sub>H<sub>9</sub>NO<sub>2</sub> MW=115.13

**Product code:** 516120005/0025

**C.A.S. :** 147-85-3

**5 gr**

**25 gr**

**EINECS :** 205-702-2

|                                                   |           |
|---------------------------------------------------|-----------|
| Assay (HClO <sub>4</sub> titration) %             | Min 99    |
| Heavy metals (as Pb) %                            | Max 0.001 |
| Ammonium (NH <sub>4</sub> ) %                     | Max 0.01  |
| Foreign amino acids %                             | Max 0.3   |
| Other ninhydrin-positive substance (as glycine) % | Max 0.1   |

## 2-Propanol

Analytical Reagent  
C<sub>3</sub>H<sub>8</sub>O MW=60.10

**Product code:** 216022500

**C.A.S. :** 67-63-0

**2.5 L**

**EINECS :** 200-661-7

|                          |            |
|--------------------------|------------|
| Assay (by GC) %          | Min 99.7   |
| Water (KF) %             | Max 0.1    |
| Acidity (meq/g) (meq/g)  | Max 0.0005 |
| Residue on Evaporation % | Max 0.001  |



H225-H319-H336  
P210-P261-P303-P361-P305-P351-P338-P405-P501A

## 2-Propanol

Laboratory Reagent  
 $C_3H_8O$  MW=60.10

**Product code:** 216002500

**C.A.S. :** 67-63-0

**2.5 L**

**EINECS :** 200-661-7

Assay (by GC) %

Min 99.0

Water (KF) %

Max 0.5

Acidity (meq/g) (meq/g)

Max 0.0005

Residue on Evaporation %

Max 0.005



H225-H319-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## 2-Propanol

For HPLC & Spectroscopy  
 $C_3H_8O$  MW=60.10

**Product code:** 216011000

**C.A.S. :** 67-63-0

**1 L**

**EINECS :** 200-661-7

Assay %

Min 99.8

Non volatile matter %

Max 0.0005

Acidity ( $C_3H_7COOH$ )

Max 0.0005 meq/g

Alkalinity

Max 0.0002 meq/g

Water %

Max 0.05

Maximum absorbance in a 1.0 cm cell against water :

At 210 nm

1.00

At 220 nm

0.30

At 230 nm

0.10

At 260 nm

0.03

At 270 nm

0.01

At 300 nm

0.01



H225-H319-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## 2-Propanol

PestiChrom  
 $C_3H_8O$  MW=60.10

**Product code:** 215991000

**C.A.S. :** 67-63-0

**1 L**

**EINECS :** 200-661-7

Assay (by GC) %

Min 99.8

Water (KF) %

Max 0.2

Acidity (meq/g)

Max 0.0005

Residue on Evaporation %

Max 0.0005

Interfering of peaks caused by impurities determined as: Lindane

(GC/ECD) max.5ng/l or Parathion (GC/NPD) max.10ng/l passes test



H225-H319-H336

P210-P261-P303-P361-P353-P305-P351-P338-P405-P501A

## Propionic acid

For Synthesis  
 $CH_3CH_2COOH$  MW=74.08

**Product code:** 116150500

**C.A.S. :** 79-09-4

**500 ml**

**EINECS :** 201-176-3

Assay %

Min 99

Wt.per ml at 20 °C

0.991 - 0.994 g

Refractive index

1.386 - 1.388



H314-H226

P210-P260-P303-P361-P353-P305-P351-P338-P405-P501A

## n-Propylamine

For Synthesis  
 $C_3H_7N$  MW =59.11

**Product code:** 216030500

**C.A.S. :** 107-10-8

**500 ml**

**EINECS :** 203-462-3

Assay (By GC) %

Min 98.0

Wt.per ml at 20 °C

0.714 - 0.716 g



H225-H311-H302-H314-H318

P210-P303-P361-P353-P305-P351-P338-P361-P405-P501A

## Pyridine

Analytical Reagent  
 $C_5H_5N$  MW =79.10

**Product code:** 500490500

**C.A.S. :** 110-86-1

**500 ml**

**EINECS :** 203-809-9

Assay %

Min 99.5

Wt.per ml at 20 °C

0.982 - 0.983 g

Refractive Index

1.509 - 1.510

Water insoluble matter

Passes test

Water %

Max 0.1

Non volatile matter

Max 0.002

Chloride (Cl)

Max 0.0005

Ammonia ( $NH_3$ ) %

Max 0.002

Copper (Cu) %

Max 0.0002

Iron (Fe) %

Max 0.0002

Lead (Pb) %

Max 0.0001

Substances reducing permanganate (O) %

Max 0.0008



H225-H302-H312-H332

P210-P261-P280-P303-P361-P353-P403-P235-P501A

## Pyrocatechol

Analytical Reagent  
 $C_6H_4(OH)_2$  MW =110.11

**Product code:** 500620100

**C.A.S. :** 120-80-9

**100 gr**

**EINECS :** 200-427-5

Assay (NT) %

Min 99

Melting point °C

104 - 106



H301-H311-H315-H319

P280-P301-P310-P305-P351-P338-P361-P405-P501



## Pyrrolidine

For Synthesis  
 $C_4H_9N$  MW=71.12

**Product code:** 522240250

**C.A.S. :** 123-75-1

250 ml

**EINECS :** 204-648-7

Assay (GC) %

Min 99

Density (d<sub>20</sub> °C/4 °C)

0.859 - 0.861

Water %

Max 0.5



H225-H314-H318-H302-H332  
P210-P280-P305-P351-P338-P308-P313

## D-Raffinose pentahydrate

For Biochemistry  
 $C_{18}H_{32}O_{16} \cdot 5H_2O$  MW=594.52

**Product code:** 517060010

**C.A.S. :** 17629-30-0

10 gr

**EINECS :** 208-146-9

Assay %

Min 99

Specific rotation

+122.0 to +124.0°

Melting point °C

78 - 80

Water %

14 - 16

## L-Rhamnose monohydrate

Analytical Reagent  
 $C_6H_{12}O_5 \cdot H_2O$  MW=182.19

**Product code:** 518140005

**C.A.S. :** 10030-85-0

5 gr

**EINECS :** 222-793-4

Assay %

Min 99

Melting point °C

90 - 92

Specific rotation (a 20/D;10%;H<sub>2</sub>O)

+8.7° to +9.2°

Water (by KF)

9 - 10.5

## Resorcinol

Analytical Reagent  
 $C_6H_6O_2$  MW=110.11

**Product code:** 518120100

**C.A.S. :** 108-46-3

100 gr

**EINECS :** 203-585-2

Assay %

99 - 100.5

Insoluble matter in water %

Max 0.01

Acidity or alkalinity

Passes test

Melting range °C

109 - 111

Phenol %

Max 0.1

Sulfated ash %

Max 0.01

Loss on drying %

Max 0.05

Chloride (Cl) %

Max 0.008

Sulfate (SO<sub>4</sub>) %

Max 0.02

Pyrocatechol %

Max 0.001

Heavy metals (as Pb) %

Max 0.0005



H400-H302-H315-H319  
P280H-P273-P305-P351-P338-P308-P313-P410-P501A

## Rhodamine B

For Microscopy  
 $C_{28}H_{31}ClN_2O_3$  MW=479.02

**Product code:** 316440025

**C.A.S. :** 81-88-9

25 gr

**EINECS :** 201-383-9

Absorption maxima in water

550 - 554 nm

Absorptivity (A 1%/1cm; at λ<sub>max</sub>, pH7, on dried substances)

Min 2100

Loss on drying (at 135°C) %

Max 15

Suitability for microscopy

Passes test



H318-H351-H302  
P280-P281-P305-P351-P338-P310-P405-P501A



## Riboflavin

For Biochemistry

$C_{17}H_{20}N_4O_6$  MW = 376.36

**Product code:** 301690010

**C.A.S. :** 83-88-5

**10 gr**

**EINECS :** 201-507-1

|                                                  |              |
|--------------------------------------------------|--------------|
| Assay (spectrophotometric, on dried substance) % | 99 - 101     |
| Specific optical rotation °C                     | -135 to -128 |
| Relative absorption:                             |              |
| At 373 nm /A267 nm                               | 0.31 - 0.33  |
| At 444 nm /A267 nm                               | 0.36 - 0.39  |
| Loss on drying (at 105 °C) %                     | Max 1.5      |
| Sulfated ash %                                   | Max 0.1      |

## D-(-)-Ribose

For Biochemistry

$C_5H_{10}O_5$  MW = 150.13

**Product code:** 301740005

**C.A.S. :** 50-69-1

**5 gr**

**EINECS :** 200-059-4

|                                                 |                |
|-------------------------------------------------|----------------|
| Assay %                                         | Min 99         |
| Specific rotation (a 20/D; 2% H <sub>2</sub> O) | -21° to -18.5° |
| Heavy metals (as Pb)                            | Max 0.001      |
| Water                                           | Max 0.5        |

## Rose bengal

Analytical Reagent

$C_{20}H_2Cl_4I_4Na_2O_5$  MW = 1017.65

**Product code:** 316450025

**C.A.S. :** 632-69-9

**25 gr**

**EINECS :** 211-183-3

|                                                                     |                                           |
|---------------------------------------------------------------------|-------------------------------------------|
| Identity (IR)                                                       | Passes test                               |
| Solubility (1mg/ml; H <sub>2</sub> O)                               | Clear to slightly hazy red color solution |
| Absorption maxima                                                   |                                           |
| (0.001% in water+ 1 ml 1% Na <sub>2</sub> CO <sub>3</sub> solution) | 544 - 550 nm                              |
| Dye content %                                                       | Min 85.0                                  |
| Loss on drying (at 110°C) %                                         | Max 10                                    |



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## p-Rosolic acid

For Microscopy

$C_{19}H_{14}O_3$  MW = 290.32

**Product code:** 316640025

**C.A.S. :** 603-45-2

**25 gr**

**EINECS :** 210-041-8

|                     |                         |
|---------------------|-------------------------|
| pH transition Range | 5.0 - 6.8 yellow - pink |
|---------------------|-------------------------|



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A



Finding  
US on the web

[www.biochemopharma.fr](http://www.biochemopharma.fr)

## Sabouraud dextrose agar

For Microbiology

**Product code:** DM2320500

**500 gr**

Dextrose 40.000 G/L  
Mycological, peptone 10.000 G/L  
Agar 15.000 G/L  
Final pH at (25°C) 5.6 ± 0.2 G/L  
Reaction reaction of 6.5% w/v aqueous solution at 25°C pH 5.6 ± 0.2  
Prepare the medium per label directions inoculate and incubate at 35 - 37°C for 18 - 48 hours

## Safranin O

For Microscopy

$C_{20}H_{19}ClN_4$  MW =350.84

**Product code:** 316420025

**C.A.S. :** 477-73-6

**25 gr**

**EINECS :** 207-518-8

Absorption maxima 530 - 534 nm  
Absorptivity (A1%, 1cm,  $\lambda_{max}$ ) Min 875  
Ration  $\lambda_{max}$  +/- 15 nm 1.10 - 1.32  
Loss on drying at 110 °C % Max 15



H315-H319-H335

P261-P302-P352-P305-P351-P338-P321-P405-P501a

## Salicylaldehyde

For Synthesis

$C_7H_6O_2$  MW =122.12

**Product code:** 219030100

**C.A.S. :** 90-02-8

**100 gr**

**EINECS :** 201-961-0

Assay % Min 99  
Weight per ml at 20°C 1.164 - 1.167 g  
Refractive index 1.5730 - 1.5740  
Salicylic acid % Max 0.2



H302-H315-H319-H335-H227

P210-P261-P280-P305-P351-P338-P405-P501A

## Salicylic acid

Analytical Reagent

$C_7H_6O_3$  MW=138.12

**Product code:** 119020500

**C.A.S. :** 69-72-7

**500 gr**

**EINECS :** 200-712-3

Assay % Min 99.5  
Melting point °C 159 - 161  
Insoluble matter % Max 0.005  
Sulfated ash % Max 0.02  
Chloride (Cl) % Max 0.001  
Sulfate (SO<sub>4</sub>) % Max 0.01  
Copper (Cu) % Max 0.0002  
Iron (Fe) % Max 0.0001  
Lead (Pb) % Max 0.0002



H318-H302-H335-H315

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Schiff's reagent

Laboratory Reagent

**Product code:** 504350500

**500 ml**

Appearance Clear colourless to slight pink colored solution  
Sensitivity Passes test  
Physical state at 20 °C Liquid  
Slight pink solution pH value <2  
Density [g/cm<sup>3</sup>] 1



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## L-Serine

For Biochemistry

$C_3H_7NO_3$  MW =105.09

**Product code:** 519050005/0025

**C.A.S. :** 56-45-1

**5 gr**

**25 gr**

**EINECS :** 200-274-3

Assay % Min 99  
Specific optical rotation [ $\alpha$ ]<sub>20</sub>/D<sub>c</sub>=10 (in HCl 2 M) +14° to +16°  
Sulfated ash % Max 0.1  
Iron (Fe) % Max 0.001  
Heavy metals (as Pb) % Max 0.001  
Loss on drying at 105 °C % Max 0.5

## Silica gel 60-200 mesh

For Column Chromatography

**Product code:** 519130500

**C.A.S. :** 112926-00-8

**500 gr**

pH of 10% slurry  
Particle size

About 7.0  
60-200 mesh



H373

P260-P314-P501A

## Silica gel G

For Thin layer chromatography

**Product code:** 519110500

**C.A.S. :** 12926-00-8

**500 gr**

pH of (10% suspension in water) About 7  
Calcium sulfate content About % 13  
Separating powder Passes test  
Adhesive property Passes test  
Suitability for TLC Passes test  
Organic impurities Passes test  
Chloride (Cl) % Max 0.02  
Iron (Fe) % Max 0.02  
Heavy metals (Pb) % Max 0.02

## Silicagel GF 254

For Thin layer chromatography

**Product code:** 519120500

**C.A.S. :** 112926-00-8

**500 gr**

**EINECS :** 231-545-4

Content of CaSO<sub>4</sub> % About 13  
Chloride (Cl) % Max 0.02  
Iron (Fe) % Max 0.02  
pH of 10% aqueous slurry About 7.0

## Silicagel HF 254

For Thin layer chromatography

**Product code:** 519140500

**C.A.S. :** 112926-00-8

**500 gr**

**EINECS :** 231-545-4

Chloride (Cl) %

Max 0.02

Iron (Fe) %

Max 0.02

pH of 10% aqueous slurry

About 7.0

## Silicon dioxide

Laboratory Reagent

SiO<sub>2</sub> MW =60.08

**Product code:** 519721000

**C.A.S. :** 60676-86-0

**1 kg**

**EINECS :** 238-878-4

Particle size

40-150 Mesh



H350-H373

P260-P281-P308-P313-P314-P405-P501A

## Silicone oil

Laboratory Reagent

**Product code:** 509020250/0500

**250 ml**

**C.A.S. :** 63148-62-9

**500 ml**

Appearance

Clear colorless viscous liquid

Viscosity at 20 °C

370 - 390 m Pas

## Silicotungstic acid

Analytical Reagent

H<sub>4</sub>(SiW<sub>12</sub>O<sub>40</sub>).xH<sub>2</sub>O MW =2878.17 (anhyd)

**Product code:** 519730025

**25 gr**

**C.A.S. :** 12027-43-9

Assay %

Min 99.5

Chloride (Cl) %

Max 0.001

Sulfate (SO<sub>4</sub>) %

Max 0.005

Total Nitrogen %

Max 0.002

Heavy metals (as Pb) %

Max 0.002

Iron (Fe) %

Max 0.001

Sodium (Na) %

Max 0.02

Potassium (K) %

Max 0.02

Loss on ignition (at 750 °C) %

Max 16.0



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Silver (metal) powder

Laboratory Reagent

Ag MW=107.87

**Product code:** 318040025

**C.A.S. :** 7440-22-4

**25 gr**

**EINECS :** 231-131-3

Assay

Min 99.9

## Silver acetate

Laboratory Reagent

C<sub>2</sub>H<sub>3</sub>AgO<sub>2</sub> MW=166.92

**Product code:** 318000025

**C.A.S. :** 563-63-3

**25 gr**

**EINECS :** 209-254-9

Assay %

Min 99.00

Copper %

Max 0.00005

Iron %

Max 0.00005

Nickel %

Max 0.00005



H400-H410-H315

P280-P273-P362-P321-P332-P313-P501A

## Silver chloride

Analytical Reagent

AgCl MW=143.32

**Product code:** 318010025

**C.A.S. :** 7783-90-6

**25 gr**

**EINECS :** 232-033-3

Assay %

99.11

Sulfate %

0.002

Nitrate %

0.004

Iron %

0.003

Loss on drying %

0.05



H290-H400-H410

P273-P234-P390-P391-P406-P501A

## Silver Nitrate 0.01 M (0.01N)

Standardized solution

traceable to NIST

AgNO<sub>3</sub> MW =169.88

**Product code:** BVS130001

**C.A.S. :** 7761-88-8

**1 L**

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Silver Nitrate 0.1 M (0.1N)

Standardized solution

traceable to NIST

AgNO<sub>3</sub> MW =169.88

**Product code:** BVS13001

**C.A.S. :** 7761-88-8

**1 L**

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Silver Nitrate 0.05 M (0.05N)

Standardized solution

traceable to NIST

AgNO<sub>3</sub> MW =169.88

**Product code:** BVS130005

**C.A.S. :** 7761-88-8

**1 L**

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Silver Nitrate 0.5 M (0.5N)

Standardized solution  
traceable to NIST  
 $\text{AgNO}_3$  MW = 169.88

**Product code:** BVS13005

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Silver Nitrate 1 M (1N)

Standardized solution  
traceable to NIST  
 $\text{AgNO}_3$  MW = 169.88

**Product code:** BVS13010

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Silver nitrate

Analytical Reagent  
 $\text{AgNO}_3$  MW = 169.88

**Product code:** 322150100/0500

**C.A.S. :** 7761-88-8

100 gr

500 gr

**EINECS :** 231-853-9

|                                           |         |
|-------------------------------------------|---------|
| Assay (Dry basis) %                       | 99.92   |
| pH (4% aqueous sol.                       | 5.5     |
| Chloride %                                | 0.0001  |
| Sulfate %                                 | 0.0025  |
| Calcium %                                 | 0.0007  |
| Bismuth %                                 | 0.0003  |
| Lead %                                    | 0.0002  |
| Magnesium %                               | 0.0007  |
| Potassium %                               | 0.009   |
| Sodium %                                  | 0.0018  |
| Copper %                                  | 0.00014 |
| Iron %                                    | 0.00015 |
| Substance not ppt. by HCl (as sulfate.) % | 0.04    |



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

## Silver oxide

Laboratory Reagent  
 $\text{Ag}_2\text{O}$  MW = 231.74

**Product code:** 318060025

**C.A.S. :** 20667-12-3

25 gr

**EINECS :** 243-957-1

|                      |            |
|----------------------|------------|
| Assay %              | 97.55      |
| Nitrate %            | 0.04       |
| Alkalies (Sulfate) % | 0.016      |
| Free Alkalies %      | 8.0 ml N/1 |



H271-H318-H400-H410-H303

P221-P283-P210-P305-P351-P338-P306-P360-P501A

## Silver sulfate

Laboratory Reagent  
 $\text{Ag}_2\text{SO}_4$  MW = 311.80

**Product code:** 322210050

**C.A.S. :** 10294-26-5

50 gr

**EINECS :** 233-653-7

|                       |        |
|-----------------------|--------|
| Assay %               | 98.91  |
| Alkalies (Sulfated) % | 0.001  |
| Iron (Fe) %           | 0.0012 |
| PH                    | 5.09   |



H318-H400-H410

P280-P273-P305-P351-P338-P310-P391-P501

## Sodium acetate anhydrous

Analytical Reagent  
 $\text{C}_2\text{H}_3\text{NaO}_2$  MW = 82.03

**Product code:** 319010500

**C.A.S. :** 127-09-3

500 gr

**EINECS :** 204-823-8

|                               |            |
|-------------------------------|------------|
| Assay %                       | Min 99     |
| pH of 5% aqueous solution     | 7.5 - 9.0  |
| Insoluble matter %            | Max 0.01   |
| Chloride (Cl) %               | Max 0.002  |
| Phosphate ( $\text{PO}_4$ ) % | Max 0.001  |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.003  |
| Aluminium (Al) %              | Max 0.001  |
| Calcium (Ca) %                | Max 0.005  |
| Copper (Cu) %                 | Max 0.0005 |
| Iron (Fe) %                   | Max 0.001  |
| Heavy metals (as Pb) %        | Max 0.001  |
| Magnesium (Mg) %              | Max 0.002  |
| Potassium (K) %               | Max 0.05   |
| Loss on drying %              | Max 1.0    |

H303  
P312

## Sodium acetate anhydrous

Laboratory Reagent  
 $\text{C}_2\text{H}_3\text{NaO}_2$  MW = 82.03

**Product code:** 319770500

**C.A.S. :** 127-09-3

500 gr

**EINECS :** 204-823-8

|                             |              |
|-----------------------------|--------------|
| Assay %                     | 99.0 - 101.0 |
| pH (5% water)               | 7.5 - 9.2    |
| Insoluble matter in water % | Max 0.05     |
| Loss on drying at 105°C %   | Max 1.0      |
| Calcium & Magnesium         | Passes test  |
| Potassium (K)               | Passes test  |
| Iron (Fe) %                 | Max 0.001    |
| Heavy metals (as Pb)        | Max 0.001    |
| Chloride (Cl) %             | Max 0.01     |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.005    |

H303  
P312



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## Sodium acetate trihydrate

Analytical Reagent  
 $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$  MW=136.08

**Product code:** 318980500

**C.A.S. :** 6131-90-4

**500 gr**

**EINECS :** 204-823-8

|                                     |             |
|-------------------------------------|-------------|
| Assay %                             | 99.5 - 101  |
| pH of 5% aqueous solution           | 7.5 - 9.2   |
| Insoluble matter %                  | Max 0.005   |
| Chloride (Cl) %                     | Max 0.003   |
| Nitrogen compounds (N) %            | Max 0.001   |
| Phosphate ( $\text{PO}_4$ ) %       | Max 0.0005  |
| Sulphate ( $\text{SO}_4$ ) %        | Max 0.002   |
| Calcium (Ca) %                      | Max 0.001   |
| Iron (Fe) %                         | Max 0.0005  |
| Lead (Pb) %                         | Max 0.0005  |
| Magnesium (Mg) %                    | Max 0.002   |
| Potassium (K) %                     | Max 0.005   |
| Substance reducing permanganate (O) | Passes test |

## Sodium azide

Analytical Reagent  
 $\text{NaN}_3$  MW=65.01

**Product code:** 319020100

**C.A.S. :** 26628-22-8

**100 gr**

**EINECS :** 247-852-1

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 99    |
| Insoluble matter %          | Max 0.005 |
| Chloride (Cl) %             | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.005 |
| Chromium (Cr) %             | Max 0.005 |
| Copper (Cu) %               | Max 0.005 |
| Iron (Fe) %                 | Max 0.005 |
| Lead (Pb) %                 | Max 0.005 |



H300-H400-H410  
P273-P264-P301-P310-P321-P405-P501A

## Sodium benzoate

Laboratory Reagent  
 $\text{C}_6\text{H}_5\text{COONa}$  MW=144.10

**Product code:** 319810500

**C.A.S. :** 532-32-1

**500 gr**

**EINECS :** 208-534-8

|                             |             |
|-----------------------------|-------------|
| Assay %                     | 99 - 100.5  |
| Identification              | Passes test |
| Appearance of solution      | Passes test |
| Acidity or alkalinity       | Passes test |
| Loss on drying at 105 °C %  | Max 1.5     |
| Heavy metals (as Pb) %      | Max 0.001   |
| Total chlorine %            | Max 0.03    |
| Chloride (Cl) %             | Max 0.02    |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01    |



H315-H319-H303  
P280-P305-P351-P338-P362-P312-P321-P332-P313

## Sodium bisulfite

Analytical Reagent  
 $\text{NaHSO}_3$  MW=104.06

**Product code:** 319170500

**C.A.S. :** 7631-90-5

**500 gr**

**EINECS :** 231-673-0

|                             |            |
|-----------------------------|------------|
| Assay (as $\text{SO}_2$ ) % | Min 58.5   |
| Arsenic (As) %              | Max 0.0001 |
| Chloride (Cl) %             | Max 0.02   |
| Heavy metals (as Pb) %      | Max 0.001  |
| Insoluble matter %          | Max 0.005  |
| Iron (Fe) %                 | Max 0.002  |



H318-H302  
P280-P264-P305-P351-P338-P310-P301-P312-P501A

## Sodium borohydride

Laboratory Reagent  
 $\text{NaBH}_4$  MW=37.83

**Product code:** 202100100

**C.A.S. :** 16940-66-2

**100 gr**

**EINECS :** 241-004-4

|                             |           |
|-----------------------------|-----------|
| Assay %                     | Min 97    |
| Chloride (Cl) %             | Max 0.5   |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01  |
| Copper (Cu) %               | Max 0.005 |
| Lead (Pb) %                 | Max 0.005 |
| Iron (Fe) %                 | Max 0.005 |
| Zinc (Zn) %                 | Max 0.005 |
| Cadmium (Cd) %              | Max 0.005 |



H301-H311-H331-H314-H318-H261  
P280-P303-P361-P353-P305-P351-P338-P310-P370-P378I-P402-P404

## Sodium bromide

Analytical Reagent  
 $\text{NaBr}$  MW=102.89

**Product code:** 319630500

**C.A.S. :** 7647-15-6

**500 gr**

**EINECS :** 231-599-9

|                              |            |
|------------------------------|------------|
| Assay (by argentometry) %    | Min 99     |
| Water insoluble matter %     | Max 0.005  |
| Bromate ( $\text{BrO}_3$ ) % | Max 0.001  |
| Chloride (Cl) %              | Max 0.2    |
| Sulfate ( $\text{SO}_4$ ) %  | Max 0.002  |
| Arsenic (As) %               | Max 0.0002 |
| Iron (Fe) %                  | Max 0.0003 |
| Heavy metals (as Pb) %       | Max 0.0005 |
| Potassium (K) %              | Max 0.1    |
| Nickel (Ni) %                | Max 0.0005 |
| Calcium (Ca) %               | Max 0.002  |
| Barium (Ba) %                | Max 0.002  |
| Copper (Cu) %                | Max 0.0005 |
| Lead (Pb) %                  | Max 0.0005 |
| Loss on drying at 105 °C %   | Max 2      |
| pH (5% solution)             | 5.0 - 8.8  |
| Iodides %                    | Max 0.001  |

**Sodium carbonate 0.5 M (1N)**Standardized solution  
traceable to NIST  
Na<sub>2</sub>CO<sub>3</sub> MW=105.99**Product code:** BVS1401**C.A.S. :** 497-19-8**1 L****EINECS :** 207-838-8**Sodium carbonate anhydrous**Analytical Reagent  
Na<sub>2</sub>CO<sub>3</sub> MW=105.99**Product code:** 319060500**C.A.S. :** 497-19-8**500 gr****EINECS :** 207-838-8

|                                                 |             |
|-------------------------------------------------|-------------|
| Assay (on dried material) %                     | Min 99.5    |
| Identity                                        | Passes test |
| Appearance of solution                          | Passes test |
| Insoluble matter in water %                     | Max 0.01    |
| Moisture (at 300°C) %                           | Max 0.5     |
| Chloride (Cl) %                                 | Max 0.002   |
| Phosphate and silicate (as SiO <sub>2</sub> ) % | Max 0.005   |
| Total sulphur (as SO <sub>4</sub> ) %           | Max 0.005   |
| Heavy metals (as Pb) %                          | Max 0.0005  |
| Arsenic (As) %                                  | Max 0.0005  |
| Calcium (Ca) %                                  | Max 0.03    |
| Iron (Fe) %                                     | Max 0.0005  |
| Potassium (K) %                                 | Max 0.01    |
| Magnesium (Mg) %                                | Max 0.005   |

H319  
P280-P264-P305-P351-P338-P337-P313**Sodium carbonate anhydrous**Laboratory Reagent  
Na<sub>2</sub>CO<sub>3</sub> MW=105.99**Product code:** 319840500**C.A.S. :** 497-19-8**500 gr****EINECS :** 207-838-8

|                                |           |
|--------------------------------|-----------|
| Assay (on dried material) %    | Min 99.5  |
| Moisture (at 300 °C) %         | Max 1.5   |
| Chloride (Cl) %                | Max 0.01  |
| Silicate (SiO <sub>2</sub> ) % | Max 0.02  |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.02  |
| Iron (Fe) %                    | Max 0.005 |
| Heavy metals (as Pb) %         | Max 0.003 |

H319  
P280-P264-P305-P351-P338-P337-P313**Sodium Chloride 0.1 M (0.1N)**Standardized solution  
traceable to NIST  
NaCl MW=58.44**Product code:** BVS15001**C.A.S. :** 7647-14-5**1 L****EINECS :** 231-598-3

|                                                                     |                |
|---------------------------------------------------------------------|----------------|
| Tolerance                                                           | +/- 0.0005M    |
| Appearance                                                          | Clear solution |
| The standardisation material (sodium chloride) is traceable to NIST |                |
| Reference Standard Material potassium chloride, number 999.         |                |

**Sodium Chloride 1 M (1N)**Standardized solution  
traceable to NIST  
NaCl MW=58.44**Product code:** BVS15010**C.A.S. :** 7647-14-5**1 L****EINECS :** 231-598-3

|                                                                     |                |
|---------------------------------------------------------------------|----------------|
| Tolerance                                                           | +/- 0.0005M    |
| Appearance                                                          | Clear solution |
| The standardisation material (sodium chloride) is traceable to NIST |                |
| Reference Standard Material potassium chloride, number 999.         |                |

**Sodium chloride**Analytical Reagent  
NaCl MW=58.44**Product code:** 319120500/5000**C.A.S. :** 7647-14-5**500 gr  
5 kg****EINECS :** 231-598-3

|                                             |             |
|---------------------------------------------|-------------|
| Assay (after ignition) %                    | Min 99.5    |
| Identity                                    | Passes test |
| Appearance of solution                      | Passes test |
| Acidity or alkalinity                       | Passes test |
| pH of 5% solution                           | 5.0 - 8.0   |
| Insoluble matter %                          | Max 0.005   |
| Bromide (Br) %                              | Max 0.005   |
| Iodide (I) %                                | Max 0.001   |
| Ferrocyanide (Fe(CN) <sub>6</sub> ) %       | Max 0.0001  |
| Chlorate and Nitrate (NO <sub>3</sub> ) %   | Max 0.003   |
| Nitrite (NO <sub>2</sub> )                  | Passes test |
| Phosphate (PO <sub>4</sub> ) %              | Max 0.0005  |
| Sulfate %                                   | Max 0.001   |
| Total Nitrogen (N) %                        | Max 0.0005  |
| Heavy metals (as Pb) %                      | Max 0.0005  |
| Arsenic (As) %                              | Max 0.00004 |
| Barium (Ba)                                 | Max 0.001   |
| Calcium (Ca) %                              | Max 0.002   |
| Copper (Cu) %                               | Max 0.0002  |
| Iron (Fe) %                                 | Max 0.0002  |
| Magnesium (Mg) %                            | Max 0.001   |
| Magnesium and alkali earth metals (as Ca) % | Max 0.01    |
| Potassium (K) %                             | Max 0.005   |
| Loss on drying (at 105 °C for 2 hrs) %      | Max 0.5     |

H303  
P312**Sodium chloride**Laboratory Reagent  
NaCl MW=58.44**Product code:** 319581000/5000**C.A.S. :** 7647-14-5**1 kg  
5 kg****EINECS :** 231-598-3

|                                  |            |
|----------------------------------|------------|
| Assay (ex Cl) (after ignition) % | Min 99.5   |
| Loss on drying at 105°C %        | Max 1.0    |
| Sulfate (SO <sub>4</sub> ) %     | Max 0.02   |
| Ammonia (NH <sub>3</sub> ) %     | Max 0.002  |
| Iron (Fe) %                      | Max 0.002  |
| Lead (Pb) %                      | Max 0.0005 |
| Potassium (K) %                  | Max 0.02   |

H303  
P312

## Sodium chloride

For Molecular Biology  
NaCl MW=58.44

**Product code:** 319870500

**C.A.S. :** 7647-14-5

**500 gr**

**EINECS :** 231-598-3

|                                   |                |
|-----------------------------------|----------------|
| Assay %                           | Min 99.5       |
| DNases/RNases/Proteases           | Not detectable |
| pH of 5% aqueous solution (20 °C) | 5.0 - 8.0      |
| Bromide (Br) %                    | Max 0.005      |
| Iodide (I) %                      | Max 0.001      |
| Phosphate (PO <sub>4</sub> ) %    | Max 0.001      |
| Sulfate (SO <sub>4</sub> ) %      | Max 0.001      |
| Barium (Ba) %                     | Max 0.001      |
| Calcium (Ca) %                    | Max 0.002      |
| Iron (Fe) %                       | Max 0.0001     |
| Potassium (K) %                   | Max 0.005      |
| Magnesium (Mg) %                  | Max 0.001      |
| Lead (Pb) %                       | Max 0.0005     |

H303  
P312

## Sodium chromate tetrahydrate

Analytical Reagent  
Na<sub>2</sub>CrO<sub>4</sub>·4H<sub>2</sub>O MW =234.07

**Product code:** 319330500

**C.A.S. :** 10034-82-9

**500 gr**

**EINECS :** 231-889-5

|                              |           |
|------------------------------|-----------|
| Assay %                      | Min 99    |
| Acidity as HCl %             | Max 0.2   |
| Alkalinity as NaOH %         | Max 0.1   |
| Aluminium (Al) %             | Max 0.002 |
| Calcium (Ca) %               | Max 0.005 |
| Chloride (Cl) %              | Max 0.005 |
| Insoluble matter %           | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01  |
| Loss on drying (at 105 °C) % | Max 0.05  |



H301-H330-H312-H317-H334-H340-H350-H360-H372-H314-H318-H400-H410  
P260-P301-P310-P303-P361-P353-P304-P340-P305-P351-P338-P320-P330  
P405-P501A

## tri-Sodium citrate dihydrate

Analytical Reagent  
C<sub>6</sub>H<sub>5</sub>Na<sub>3</sub>O<sub>7</sub>·2H<sub>2</sub>O MW=294.10

**Product code:** 319460500

**C.A.S. :** 6132-04-3

**500 gr**

**EINECS :** 200-675-3

|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| Assay (HClO <sub>2</sub> titration) %                     | 99 - 100.5          |
| Identity                                                  | Passes test         |
| Appearance of solution (100g/l)                           | Clear and colorless |
| Insoluble matter %                                        | Max 0.005           |
| Acidity or alkalinity                                     | Passes test         |
| pH (50gm/l water 25 °C)                                   | 7.5 - 9.0           |
| Chloride (Cl) %                                           | Max 0.001           |
| Sulfate (SO <sub>4</sub> ) %                              | Max 0.004           |
| Phosphate (PO <sub>4</sub> ) %                            | Max 0.002           |
| Total nitrogen (N) %                                      | Max 0.001           |
| Heavy metals (as Pb) %                                    | Max 0.0005          |
| Iron (Fe) %                                               | Max 0.0005          |
| Oxalate (C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> ) % | Max 0.002           |
| Tartarate (C <sub>4</sub> H <sub>6</sub> )                | Passes test         |
| Readily carbonisable substances                           | Passes test         |
| Ammonium (NH <sub>4</sub> ) %                             | Max 0.003           |
| Calcium (Ca) %                                            | Max 0.005           |
| Arsenic (As) %                                            | Max 0.0001          |
| Mercury (Hg) %                                            | Max 0.0001          |
| Lead (Pb) %                                               | Max 0.0001          |
| Water (by KF) %                                           | 11 - 13             |
| Loss on drying (180 °C, 18 hrs) %                         | 10 - 13             |

## Sodium dichromate dihydrate

Analytical Reagent  
Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>·2H<sub>2</sub>O MW =289.00

**Product code:** 318070500

**C.A.S. :** 7789-12-0

**500 gr**

**EINECS :** 234-190-3

|                              |              |
|------------------------------|--------------|
| Assay (By iodometry) %       | 99.5 - 100.5 |
| Insoluble matter %           | Max 0.005    |
| Chloride (Cl) %              | Max 0.005    |
| Sulfate (SO <sub>4</sub> ) % | Max 0.01     |
| Calcium (Ca) %               | Max 0.002    |
| Aluminium (Al) %             | Max 0.002    |
| Copper (Cu) %                | Max 0.01     |
| Iron (Fe) %                  | Max 0.002    |
| Lead (Pb) %                  | Max 0.002    |
| Potassium (K) %              | Max 0.01     |
| Magnesium (Mg) %             | Max 0.005    |



H272-H301-H330-H334-H350-H360-H372-H314-H400-H410-H312-H317  
P221-P301-P310-P303-P361-P353-P305-P351-P338-P320-P405-P501a

## Sodium dihydrogen orthophosphate dihydrate

Analytical Reagent  
NaH<sub>2</sub>PO<sub>4</sub>·2H<sub>2</sub>O MW=156.01

**Product code:** 319090500

**C.A.S. :** 13472-35-0

**500 gr**

**EINECS :** 231-449-2

|                                         |              |
|-----------------------------------------|--------------|
| Assay %                                 | 99.0 - 100.5 |
| Identity (acc. to pharma)               | Passes test  |
| Appearance of solution                  | Passes test  |
| Water insoluble matter %                | Max 0.01     |
| pH of 1% solution in water              | 4.1-4.7      |
| pH of 5% solution in water              | 4.2-4.5      |
| pH of 5.7% solution in water            | 4.1-4.5      |
| Chloride (Cl) %                         | Max 0.001    |
| Sulfate (SO <sub>4</sub> ) %            | Max 0.005    |
| Aluminium, Calcium and related elements | Passes test  |
| Substance reducing KMnO <sub>4</sub>    | Passes test  |
| Arsenic (As) %                          | Max 0.0002   |
| Calcium (Ca) %                          | Max 0.002    |
| Copper (Cu) %                           | Max 0.0001   |
| Iron (Fe) %                             | Max 0.001    |
| Lead (Pb) %                             | Max 0.0001   |
| Magnesium (Mg) %                        | Max 0.001    |
| Potassium (K) %                         | Max 0.005    |
| Loss on drying (at 130 °C) %            | 21.5 - 24.0  |

## Sodium dihydrogen orthophosphate dihydrate

Laboratory Reagent  
NaH<sub>2</sub>PO<sub>4</sub>·2H<sub>2</sub>O MW=156.01

**Product code:** 319710500

**C.A.S. :** 13472-35-0

**500 gr**

**EINECS :** 231-449-2

|                                          |            |
|------------------------------------------|------------|
| Assay %                                  | Min 98     |
| pH (5% water)                            | 4.2 - 4.5  |
| Chloride (Cl) %                          | Max 0.005  |
| Fluoride (F) %                           | Max 0.001  |
| Hydrogen phosphate (HPO <sub>4</sub> ) % | Max 0.5    |
| Sulfate (SO <sub>4</sub> ) %             | Max 0.02   |
| Heavy metals (as Pb) %                   | Max 0.0005 |
| Arsenic (As) %                           | Max 0.0002 |
| Lead (Pb) %                              | Max 0.0005 |
| Calcium (Ca) %                           | Max 0.005  |
| Iron (Fe) %                              | Max 0.001  |
| Copper (Cu) %                            | Max 0.0025 |
| Magnesium (Mg) %                         | Max 0.005  |
| Zinc (Zn) %                              | Max 0.0025 |
| Substance reducing KMnO <sub>4</sub> %   | Max 0.04   |
| Loss on drying (at 130 °C) %             | 21.5 - 24  |

## Sodium dithionite

Laboratory Reagent  
 $\text{Na}_2\text{S}_2\text{O}_4$  MW=174.11

**Product code:** 319440500

**C.A.S. :** 7775-14-6

**500 gr**

**EINECS :** 231-890-0

Assay (By iodometry) %

85 - 87

Chloride (Cl) %

Max 0.01

Iron (Fe) %

Max 0.002



H251-H302

P280-P235-P410-P301-P312-P420-P407-P501A

## Sodium DL-tartrate anhydrous

Laboratory Reagent  
 $\text{C}_4\text{H}_4\text{Na}_2\text{O}_6$  MW=194.05

**Product code:** 318300500

**C.A.S. :** 868-18-8

**500 gr**

Assay %

Min 99.5

Iron (Fe) %

Max 0.004

Lead (Pb) %

Max 0.002

Chloride (Cl) %

Max 0.01

## Sodium dodecylsulfate

Laboratory Reagent  
 $\text{C}_{12}\text{H}_{25}\text{NaO}_4\text{S}$  MW=288.38

**Product code:** 319590500

**C.A.S. :** 151-21-3

**500 gr**

**EINECS :** 205-788-1

Washing active substances %

91 - 92

Density

~ 450 g/l

pH (1% solution)

6.0-9.0

Sodium sulfate %

~ 2.0

Unsulphated fractions %

Max 3.0

Sodium Chloride %

Max 0.5

Water %

Max 7.5



H228-H311-H302-H315-H319-H335

P210-P261-P305-P351-P338-P361-P405-P501A

## Sodium fluoride

Analytical Reagent  
NaF MW=41.99

**Product code:** 318260500

**C.A.S. :** 7681-49-4

**500 gr**

**EINECS :** 231-667-8

Assay %

Min 99

Insoluble matter %

Max 0.01

Loss on drying at 105°C %

Max 0.2

Acidity (HF) %

Max 0.05

Free alkali %

Max 0.04

Chloride (Cl) %

Max 0.005

Hexafluorosilicate ( $\text{SiF}_6$ ) %

Max 0.1

Sulfate ( $\text{SO}_4$ ) %

Max 0.01

Sulfite ( $\text{SO}_3$ ) %

Max 0.005

Heavy metal (as Pb) %

Max 0.001

Calcium (Ca) %

Max 0.004

Iron (Fe) %

Max 0.002

Lead (Pb) %

Max 0.0005



H301-H315-H319

P280-P301-P310-P305-P351-P338-P362-P405-P501A

## Sodium hydrogen carbonate

Laboratory Reagent  
 $\text{NaHCO}_3$  MW=84.01

**Product code:** 319901000

**C.A.S. :** 144-55-8

**1 kg**

**EINECS :** 205-633-8

Assay (acidimetric) %

99.5 - 101

pH (5% water)

8.0 - 8.5

Chloride (Cl) %

Max 0.015

Sulfate ( $\text{SO}_4$ ) %

Max 0.01

Total Nitrogen %

Max 0.002

Heavy metals (as Pb) %

Max 0.0005

Arsenic (As) %

Max 0.0002

Lead (Pb) %

Max 0.0005

Calcium (Ca) %

Max 0.01

Iron (Fe) %

Max 0.002

H303

P312

## di-Sodium hydrogenephosphate dodecahydrate

Laboratory Reagent  
 $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$  MW=358.14

**Product code:** 319950500

**C.A.S. :** 10039-32-4

**500 gr**

Assay (by acidimetry) %

98.5 - 100.5

pH (5% water)

9.0 - 9.3

Chloride (Cl) %

Max 0.01

Sulfate ( $\text{SO}_4$ ) %

Max 0.01

Sodium dihydrogen phosphate ( $\text{NaH}_2\text{PO}_4$ ) %

Max 1.0

Heavy metals (as Pb) %

Max 0.001

Iron (Fe) %

Max 0.001

Arsenic (As) %

Max 0.0001

Substances reducing  $\text{KMnO}_4$  (as O) %

Max 0.02

Loss on drying (at 130 °C) %

57 - 61

Water (KF) %

57 - 61

## Sodium Hydroxide 0.1 M (0.1N)

Standardized solution  
traceable to NIST  
NaOH MW =40

**Product code:** BVS16001

**C.A.S. :** 1310-73-2

**1 L**

**EINECS :** 215-185-5

Tolerance

+/- 0.0005M

Appearance Clear solution

The standardisation material (potassiumhydrogen phthalate)

is traceable to NIST Reference Standard Material potassiumhydrogen phthalate, number 841.



H314

P280 P305-P351-P338-P310

## Sodium Hydroxide 1 M (1N)

Standardized solution  
traceable to NIST  
NaOH MW =40

**Product code:** BVS16010

**C.A.S. :** 1310-73-2

**1 L**

**EINECS :** 215-185-5

Tolerance

+/- 0.005M

Appearance

Clear solution

The standardisation material (Hydrochloric acid) is a secondary reference material traceable to NIST Reference Standard Material Tris(hydroxymethyl)amino methane, number 723e.



H314

P280 P305-P351-P338-P310

## Sodium hydroxide

Analytical Reagent  
NaOH MW=40**Product code:** 319250500/5000**C.A.S. :** 1310-73-2**EINECS :** 215-185-5**500 gr**  
**5 kg**

|                                                       |            |
|-------------------------------------------------------|------------|
| Assay (acidimetric) %                                 | 98 - 100.5 |
| Insoluble matter in water %                           | Max 0.025  |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) % | Max 1.0    |
| Chloride (Cl) %                                       | Max 0.005  |
| Sulfate (SO <sub>4</sub> ) %                          | Max 0.0005 |
| Phosphate (PO <sub>4</sub> ) %                        | Max 0.0005 |
| Silicate (SiO <sub>2</sub> ) %                        | Max 0.001  |
| Total nitrogen (N) %                                  | Max 0.0003 |
| Heavy metals (as Pb) %                                | Max 0.0005 |
| Iron (Fe) %                                           | Max 0.0005 |
| Aluminium (Al) %                                      | Max 0.0005 |
| Calcium (Ca) %                                        | Max 0.0005 |
| Potassium (K) %                                       | Max 0.01   |

H314-H290  
P280-P301-P330-P331-P309-P310-P305-P351-P338

## Sodium hydroxide

Laboratory Reagent  
NaOH MW=40**Product code:** 319450500/5000**C.A.S. :** 1310-73-2**EINECS :** 215-185-5**500 gr**  
**5 kg**

|                                                   |            |
|---------------------------------------------------|------------|
| Assay (acidimetric) %                             | Min 98     |
| Carbonate (as Na <sub>2</sub> CO <sub>3</sub> ) % | Max 1.0    |
| Chloride (Cl) %                                   | Max 0.01   |
| Sulfate (SO <sub>4</sub> ) %                      | Max 0.003  |
| Phosphate (PO <sub>4</sub> ) %                    | Max 0.002  |
| Silicate as (SiO <sub>2</sub> ) %                 | Max 0.01   |
| Nitrogen compounds (as N) %                       | Max 0.0005 |
| Heavy metals (as Pb) %                            | Max 0.002  |
| Iron (Fe) %                                       | Max 0.001  |
| Aluminium (Al) %                                  | Max 0.001  |
| Arsenic (As) %                                    | Max 0.0004 |
| Potassium (K) %                                   | Max 0.1    |

H314-H290  
P280-P301-P330-P331-P309-P310-P305-P351-P338

## Sodium hypochlorite

Laboratory Reagent

**Product code:** 319611000**C.A.S. :** 7681-52-9**EINECS :** 231-668-3**1 L**

|                         |            |
|-------------------------|------------|
| Assay (active chlorine) | 4.0 - 6.0  |
| Density at 20 °C        | About 1.12 |

H314  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

## Sodium hypophosphite monohydrate

Laboratory Reagent  
NaH<sub>2</sub>PO<sub>2</sub>·H<sub>2</sub>O MW=105.99**Product code:** 319620500**C.A.S. :** 10039-56-2**EINECS :** 231-669-9**500 gr**

|                              |            |
|------------------------------|------------|
| Assay %                      | Min 99     |
| Water (KF) %                 | 5 - 18     |
| Arsenic (As) %               | Max 0.0005 |
| Calcium (Ca) %               | Max 0.02   |
| Iron (Fe) %                  | Max 0.001  |
| Heavy metals (as Pb) %       | Max 0.001  |
| Chloride (Cl) %              | Max 0.02   |
| Sulfate (SO <sub>4</sub> ) % | Max 0.2    |

## Sodium L(+) ascorbate

Analytical Reagent  
C<sub>6</sub>H<sub>7</sub>NaO<sub>6</sub> MW=198.11**Product code:** 319640100**C.A.S. :** 134-03-2**EINECS :** 205-126-1**100 gr**

|                                                 |              |
|-------------------------------------------------|--------------|
| Assay (calculated on dried basis) (Idimetric) % | 9 - 101      |
| pH of 10% aq. soln.                             | 7 - 8        |
| Specific optical rotation 10% soln.             | +103 - +108° |
| Loss on drying (for 24 hrs. at 60°C, vacuum) %  | Max 0.25     |
| Heavy metals (as Pb) %                          | Max 0.02     |
| Organic volatile impurities                     | Passes test  |

## Sodium molybdate dihydrate

Analytical Reagent  
Na<sub>2</sub>MoO<sub>4</sub>·2H<sub>2</sub>O MW =241.95**Product code:** 318130100**C.A.S. :** 10102-40-6**EINECS :** 231-551-7**100 gr**

|                                |            |
|--------------------------------|------------|
| Assay %                        | 99 - 102   |
| Insoluble matter %             | Max 0.005  |
| pH of 5% solution %            | 7.0 - 10.5 |
| Chloride (Cl) %                | Max 0.001  |
| Nitrate (NO <sub>3</sub> ) %   | Max 0.005  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.02   |
| Ammonium (NH <sub>4</sub> ) %  | Max 0.01   |
| Copper (Cu) %                  | Max 0.002  |
| Iron (Fe) %                    | Max 0.001  |
| Lead (Pb) %                    | Max 0.001  |

## Sodium nitrite

Analytical Reagent  
NaNO<sub>2</sub> MW =69.00**Product code:** 319130500**C.A.S. :** 7632-00-0**EINECS :** 231-555-9**500 gr**

|                              |             |
|------------------------------|-------------|
| Assay %                      | Min 98      |
| Insoluble matter %           | Max 0.003   |
| Chloride (Cl) %              | Max 0.005   |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005   |
| Arsenic (As) %               | Max 0.00004 |
| Calcium (Ca) %               | Max 0.002   |
| Copper (Cu) %                | Max 0.0005  |
| Iron (Fe) %                  | Max 0.001   |
| Lead (Pb) %                  | Max 0.0005  |
| Magnesium (Mg) %             | Max 0.002   |
| Potassium (K) %              | Max 0.001   |

H272-H301-H330-H400  
P221-P301-P304-P340-P320-P330-P401-P501

## Sodium nitrite

Laboratory Reagent  
NaNO<sub>2</sub> MW =69.00**Product code:** 319930500**C.A.S. :** 7632-00-0**500 gr****EINECS :** 231-555-9

|                              |           |
|------------------------------|-----------|
| Assay %                      | Min 97    |
| Chloride (Cl) %              | Max 0.005 |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005 |
| Heavy metals (as Pb) %       | Max 0.001 |
| Calcium (Ca) %               | Max 0.005 |
| Loss on drying %             | Max 0.25  |

H272-H301-H330-H400  
P221-P301-P304-P340-P320-P330-P401-P501

## Sodium perborate tetrahydrate

Laboratory Reagent  
NaBO<sub>3</sub>·4H<sub>2</sub>O MW =153.86**Product code:** 319401000**C.A.S. :** 10486-00-7**1 kg****EINECS :** 239-172-9

|                              |           |
|------------------------------|-----------|
| Assay %                      | Min 97    |
| Chloride (Cl) %              | Max 0.033 |
| Sulfate (SO <sub>4</sub> ) % | Max 1.5   |
| Heavy metals (as Pb) %       | Max 0.001 |
| Iron (Fe) %                  | Max 0.002 |

H272-H360-H318-H302-H335  
P221-P210-P220-P305-P351-P338-P405-P501A

## Sodium nitroprusside dihydrate

Analytical Reagent  
Na<sub>2</sub>[Fe(CN)<sub>5</sub>NO]·2H<sub>2</sub>O MW =297.95**Product code:** 501210100**C.A.S. :** 13755-38-9**100 gr****EINECS :** 238-373-9

|                                       |          |
|---------------------------------------|----------|
| Assay (Argentometric) %               | Min 99.0 |
| Insoluble matter %                    | Max 0.01 |
| Chloride (Cl) %                       | Max 0.01 |
| Ferricyanide [Fe(CN <sub>6</sub> )] % | Max 0.01 |
| Ferrocyanide [Fe(CN <sub>6</sub> )] % | Max 0.02 |
| Sulfate (SO <sub>4</sub> ) %          | Max 0.01 |

H301-H312-H332  
P261-P280-P301-P310-P304-P340-P405-P501A

## Sodium peroxide

Analytical Reagent  
Na<sub>2</sub>O<sub>2</sub> MW =77.98**Product code:** 318160100**C.A.S. :** 1313-60-6**100 gr****EINECS :** 215-209-4

|                                |            |
|--------------------------------|------------|
| Assay %                        | Min 95     |
| Chloride (Cl) %                | Max 0.002  |
| Phosphate (PO <sub>4</sub> ) % | Max 0.0005 |
| Sulfate (SO <sub>4</sub> ) %   | Max 0.001  |
| Total nitrogen (N) %           | Max 0.003  |
| Heavy metals (Pb) %            | Max 0.002  |
| Aluminium (Al) %               | Max 0.001  |
| Iron (Fe) %                    | Max 0.002  |

H271-H314  
P221-P283-P303-P361-P353-P305-P351-P338-P405-P501ATri-sodium orthophosphate  
dodecahydrateAnalytical Reagent  
Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O MW =380.12**Product code:** 319150500**C.A.S. :** 10101-89-0**500 gr****EINECS :** 231-509-8

|                              |            |
|------------------------------|------------|
| Assay %                      | 98 - 102   |
| Insoluble matter %           | Max 0.01   |
| Free alkali (NaOH) %         | Max 2.5    |
| Chloride (Cl) %              | Max 0.005  |
| Nitrogen compounds (N) %     | Max 0.001  |
| Sulfate (SO <sub>4</sub> ) % | Max 0.005  |
| Calcium (Ca) %               | Max 0.002  |
| Copper (Cu) %                | Max 0.0005 |
| Iron (Fe) %                  | Max 0.001  |
| Lead (Pb) %                  | Max 0.0005 |
| Magnesium (Mg) %             | Max 0.002  |
| Potassium (K) %              | Max 0.005  |

H314-H318  
P280-P305+P351-P338-P309-P310

## Sodium persulfate

Analytical Reagent  
Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub> MW =238.09**Product code:** 319101000**C.A.S. :** 7775-27-1**1 kg****EINECS :** 231-892-1

|                               |             |
|-------------------------------|-------------|
| Assay (Iodometric) %          | Min 98.0    |
| Insoluble mater %             | Max 0.005   |
| Chloride (Cl) %               | Max 0.002   |
| Ammonium (NH <sub>4</sub> ) % | Max 0.0005  |
| Arsenic (As) %                | Max 0.00004 |
| Iron (Fe) %                   | Max 0.0005  |
| Heavy metals (Pb) %           | Max 0.001   |
| Manganese (Mn) %              | Max 0.0001  |

H225-H351-H319-H335  
P210-P261-P303-P361-P353-P305-P351-P338-P405-P501

## Sodium salicylate

Laboratory Reagent  
C<sub>7</sub>H<sub>5</sub>NaO<sub>3</sub> MW =160.10**Product code:** 319960500**C.A.S. :** 54-21-7**500 gr****EINECS :** 200-198-0

|                                        |           |
|----------------------------------------|-----------|
| Assay (calculated to dried material) % | Min 99    |
| Loss on drying at 105 °C %             | Max 0.5   |
| Chloride (Cl) %                        | Max 0.02  |
| Sulfate (SO <sub>4</sub> ) %           | Max 0.05  |
| Heavy metal (as Pb) %                  | Max 0.002 |

H302-H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

## Sodium selenite anhydrous

Analytical Reagent  
 $\text{Na}_2\text{SeO}_3$  MW=173.01

**Product code:** 319340025

**C.A.S. :** 10102-18-8

**25 gr**

**EINECS :** 233-267-9

|                                            |           |
|--------------------------------------------|-----------|
| Assay %                                    | Min 99    |
| Chloride (Cl) %                            | Max 0.005 |
| Sulfate and Selenate (as $\text{SO}_4$ ) % | Max 0.005 |
| Nitrogen compounds (N) %                   | Max 0.005 |
| Iron (Fe) %                                | Max 0.001 |



H300-EUH031-H331-H317-H411  
P261-P301-P310-P302-P352-P321-P405-P501

## Sodium silicate (meta)

Laboratory Reagent  
 $\text{Na}_2\text{O}_3\text{Si}_2\text{H}_2\text{O}$  MW=284.20

**Product code:** 321040500

**C.A.S. :** 13517-24-3

**500 gr**

**EINECS :** 229-912-9

|                               |           |
|-------------------------------|-----------|
| Chloride (Cl) %               | Max 0.05  |
| Sulfate ( $\text{SO}_4$ ) %   | Max 0.05  |
| Iron (Fe) %                   | Max 0.005 |
| Heavy metals (as Pb) %        | Max 0.001 |
| Loss on ignition (at 700°C) % | 35 – 50   |



H290-H314-H335  
P261-P280-P305-P351-P338-P310

## Sodium sulfate anhydrous

Analytical Reagent  
 $\text{Na}_2\text{SO}_4$  MW=142.04

**Product code:** 319260500/1000

**C.A.S. :** 7757-82-6

**500 gr  
1 kg**

**EINECS :** 231-820-9

|                                  |            |
|----------------------------------|------------|
| Assay (ionsensitive electrode) % | Min 99     |
| Insoluble matter %               | Max 0.01   |
| pH (5% water)                    | 5.2 - 9.2  |
| Chloride (Cl) %                  | Max 0.001  |
| Phosphate ( $\text{PO}_4$ ) %    | Max 0.001  |
| Total nitrogen (N) %             | Max 0.0005 |
| Heavy metals (as Pb) %           | Max 0.0005 |
| Arsenic (As) %                   | Max 0.0001 |
| Calcium (Ca) %                   | Max 0.01   |
| Iron (Fe) %                      | Max 0.0005 |
| Potassium (K) %                  | Max 0.002  |
| Magnesium (Mg) %                 | Max 0.001  |
| Loss on ignition (at 800 °C) %   | Max 0.5    |

## Sodium sulfite anhydrous

Analytical Reagent  
 $\text{Na}_2\text{SO}_3$  MW=126.04

**Product code:** 319270500

**C.A.S. :** 7757-83-7

**500 gr**

**EINECS :** 231-821-4

|                             |                |
|-----------------------------|----------------|
| Assay (Iodometric) %        | Min 98         |
| Insoluble matter in water % | Max 0.005      |
| Acidity                     | Passes test    |
| Alkalinity                  | Max 0.03 meq/g |
| Chloride (Cl) %             | Max 0.02       |
| Heavy metals (as Pb) %      | Max 0.001      |
| Iron (Fe) %                 | Max 0.0005     |

H303  
P312

## Sodium (+) tartrate dihydrate

Laboratory Reagent  
 $\text{C}_4\text{H}_4\text{Na}_2\text{O}_6 \cdot 2\text{H}_2\text{O}$  MW=230.08

**Product code:** 318230500

**C.A.S. :** 6106-24-7

**500 gr**

**EINECS :** 212-773-3

|                             |           |
|-----------------------------|-----------|
| Assay (ex Na) %             | Min 99    |
| pH (5% solution 20 °C)      | 7.0 - 8.0 |
| Chloride (Cl) %             | Max 0.01  |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.05  |
| Iron (Fe) %                 | Max 0.004 |
| Lead (Pb) %                 | Max 0.002 |

## Sodium thiocyanate

Laboratory Reagent  
 $\text{NaSCN}$  MW=81.07

**Product code:** 318340500

**C.A.S. :** 540-72-7

**500 gr**

**EINECS :** 208-754-4

|                             |          |
|-----------------------------|----------|
| Assay %                     | Min 98   |
| Chloride (Cl) %             | Max 0.02 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.01 |
| Iodine absorption (I) %     | Max 1 ml |



H302-H312-H332-H412  
P261-P280-P304-P340-P301-P312-P501A

## Sodium Thiosulfate 0.1 M (0.1N) Standardized solution

traceable to NIST

$\text{Na}_2\text{O}_3\text{S}_2 \cdot 5\text{H}_2\text{O}$  MW=248.17

**Product code:** BVS17001

**C.A.S. :** 10102-17-7

**1 L**

**EINECS :** 231-867-5

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| Tolerance                                                            | +/- 0.0005M    |
| Appearance                                                           | Clear solution |
| The standardisation material (potassium iodate) is traceable to NIST |                |
| Standard Reference Material arsenic trioxide, number 83d             |                |

## Sodium Thiosulfate 1 M (1N)

Standardized solution

traceable to NIST

$\text{Na}_2\text{O}_3\text{S}_2 \cdot 5\text{H}_2\text{O}$  MW=248.17

**Product code:** BVS17010

**C.A.S. :** 10102-17-7

**1 L**

**EINECS :** 231-867-5

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| Tolerance                                                            | +/- 0.0005M    |
| Appearance                                                           | Clear solution |
| The standardisation material (potassium iodate) is traceable to NIST |                |
| Standard Reference Material arsenic trioxide, number 83d             |                |



|                                         |              |                                                                            |
|-----------------------------------------|--------------|----------------------------------------------------------------------------|
| <b>Sodium thiosulfate pentahydrate</b>  |              | Analytical Reagent                                                         |
|                                         |              | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> ·5H <sub>2</sub> O MW=248.17 |
| <b>Product code:</b>                    | 319280500    |                                                                            |
| <b>C.A.S. :</b>                         | 10102-17-7   | <b>500 gr</b>                                                              |
| <b>EINECS :</b>                         | 231-867-5    |                                                                            |
| Assay %                                 | 99.5 - 101.0 |                                                                            |
| Insoluble matter %                      | Max 0.003    |                                                                            |
| Reaction pH                             | 5.5-7.5      |                                                                            |
| Chloride(Cl) %                          | Max 0.02     |                                                                            |
| Nitrogen compounds(N) %                 | Max 0.005    |                                                                            |
| Sulfate and sulfite(SO <sub>4</sub> ) % | Max 0.1      |                                                                            |
| Sulfide(S) %                            | Max 0.0002   |                                                                            |
| Calcium(Ca) %                           | Max 0.002    |                                                                            |
| Copper(Cu) %                            | Max 0.0005   |                                                                            |
| Iron(Fe) %                              | Max 0.0005   |                                                                            |
| Lead(Pb) %                              | Max 0.0005   |                                                                            |
| Magnesium(Mg) %                         | Max 0.001    |                                                                            |
| Potassium(K) %                          | Max 0.001    |                                                                            |

|                                                  |            |                                                         |
|--------------------------------------------------|------------|---------------------------------------------------------|
| <b>Sorbic acid</b>                               |            | Laboratory Reagent                                      |
|                                                  |            | C <sub>6</sub> H <sub>8</sub> O <sub>2</sub> MW =112.13 |
| <b>Product code:</b>                             | 119130500  |                                                         |
| <b>C.A.S. :</b>                                  | 110-44-1   | <b>500 gr</b>                                           |
| <b>EINECS :</b>                                  | 203-768-7  |                                                         |
| Assay %                                          | 99 - 101   |                                                         |
| Melting range °C                                 | 132 - 135  |                                                         |
| Residue on ignition (as SO <sub>4</sub> ) %      | Max 0.2    |                                                         |
| Aldehydes (as C <sub>2</sub> H <sub>4</sub> O) % | Max 0.15   |                                                         |
| Heavy metals (Pb) %                              | Max 0.001  |                                                         |
| Arsenic (As) %                                   | Max 0.0003 |                                                         |
| Water (Karl Fischer) %                           | Max 0.5    |                                                         |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501

|                               |           |                  |
|-------------------------------|-----------|------------------|
| <b>Soya peptone</b>           |           | For Microbiology |
| <b>Product code:</b>          | DM1080500 | <b>500 gr</b>    |
| pH (1.0 w/v aqueous solution) | 6.4 ~ 0.5 |                  |
| Total nitrogen %              | Min 9.0   |                  |
| à- Amino nitrogen %           | Min 1.8   |                  |
| Sodium chloride %             | Max 5.0   |                  |
| Moisture %                    | 5.0       |                  |
| Ash %                         | 14.0      |                  |

|                                           |                                                            |                  |
|-------------------------------------------|------------------------------------------------------------|------------------|
| <b>SS agar (Salmonella shigella agar)</b> |                                                            | For Microbiology |
| <b>Product code:</b>                      | DM2340500                                                  | <b>500 gr</b>    |
| Beef extract                              | 5.000 G/L                                                  |                  |
| Peptic digest of animal tissue            | 5.000 G/L                                                  |                  |
| Lactose                                   | 10.000 G/L                                                 |                  |
| Bile salts mixture                        | 8.500 G/L                                                  |                  |
| Sodium citrate                            | 10.000 G/L                                                 |                  |
| Sodium thiosulfate                        | 8.500 G/L                                                  |                  |
| Ferric citrate                            | 1.000 G/L                                                  |                  |
| Brilliant green                           | 0.00033 G/L                                                |                  |
| Neutral red                               | 0.025 G/L                                                  |                  |
| Agar                                      | 15.000 G/L                                                 |                  |
| Final pH (at 25°C)                        | 7.0 ~ 0.2                                                  |                  |
| PH range                                  | 6.80 - 7.20                                                |                  |
| Reaction                                  | reaction of 6.3% w/v aqueous solution at 25°C pH 7.0 ~ 0.2 |                  |

|                             |           |                                                           |
|-----------------------------|-----------|-----------------------------------------------------------|
| <b>Stearic acid</b>         |           | For Synthesis                                             |
|                             |           | C <sub>18</sub> H <sub>36</sub> O <sub>2</sub> MW =284.48 |
| <b>Product code:</b>        | 101350500 |                                                           |
| <b>C.A.S. :</b>             | 57-11-4   | <b>500 gr</b>                                             |
| <b>EINECS :</b>             | 200-313-4 |                                                           |
| Assay (mix of fatty acid) % | Min 98    |                                                           |
| Acid number                 | 195 - 200 |                                                           |
| Sulfated ash %              | Max 0.1   |                                                           |
| Iodine value                | Max 4.0   |                                                           |
| Congeaing temperature       | Min 54°C  |                                                           |



H315-H319-H335  
P261-P305-P351-P338-P302-P352-P321-P405-P501A

|                                     |            |                  |
|-------------------------------------|------------|------------------|
| <b>Streptococcus Selection agar</b> |            | For Microbiology |
| <b>Product code:</b>                | DM2630500  | <b>500 gr</b>    |
| Casein enzymic hydrolysate          | 15.000 G/L |                  |
| Papaic digest of soyabean meal      | 5.000 G/L  |                  |
| Dextrose                            | 5.000 G/L  |                  |
| Sodium chloride                     | 4.000 G/L  |                  |
| Sodium citrate                      | 1.000 G/L  |                  |
| Sodium sulfite                      | 0.200 G/L  |                  |
| L-Cystine                           | 0.200 G/L  |                  |
| Sodium azide                        | 0.200 G/L  |                  |
| Crystal violet                      | 0.0002 G/L |                  |
| Agar                                | 15.000 G/L |                  |
| Final pH (at 25°C)                  | 7.4 ~ 0.2  |                  |

|                                            |           |                              |
|--------------------------------------------|-----------|------------------------------|
| <b>Strontium carbonate</b>                 |           | Laboratory Reagent           |
|                                            |           | SrCO <sub>3</sub> MW =147.63 |
| <b>Product code:</b>                       | 302070250 |                              |
| <b>C.A.S. :</b>                            | 1633-05-2 | <b>250 gr</b>                |
| <b>EINECS :</b>                            | 216-643-7 |                              |
| Assay (Complexometry) %                    | Min 98    |                              |
| Insoluble matter in CH <sub>3</sub> COOH % | Max 0.025 |                              |
| Chloride (Cl) %                            | Max 0.02  |                              |
| Phosphate (PO <sub>4</sub> ) %             | Max 0.005 |                              |
| Copper (Cu) %                              | Max 0.002 |                              |
| Iron (Fe) %                                | Max 0.002 |                              |
| Nickel (Ni) %                              | Max 0.002 |                              |
| Lead (Pb) %                                | Max 0.002 |                              |

|                                       |            |                                                 |
|---------------------------------------|------------|-------------------------------------------------|
| <b>Strontium chloride hexahydrate</b> |            | Laboratory Reagent                              |
|                                       |            | SrCl <sub>2</sub> ·6H <sub>2</sub> O MW =266.62 |
| <b>Product code:</b>                  | 319070500  |                                                 |
| <b>C.A.S. :</b>                       | 10025-70-4 | <b>500 gr</b>                                   |
| <b>EINECS :</b>                       | 233-971-6  |                                                 |
| Assay (complexometric) %              | Min 98     |                                                 |
| Insoluble matter in water %           | Max 0.01   |                                                 |
| Sulfate (SO <sub>4</sub> ) %          | Max 0.005  |                                                 |
| pH (5% water)                         | 5.0 - 7.0  |                                                 |
| Heavy metals (as Pb) %                | Max 0.002  |                                                 |
| Barium (Ba) %                         | Max 0.01   |                                                 |
| Calcium (Ca) %                        | Max 0.1    |                                                 |
| Iron (Fe) %                           | Max 0.002  |                                                 |



H318  
P280-P305-P351-P338-P310

## Strontium nitrate anhydrous

Laboratory Reagent  
 $\text{Sr}(\text{NO}_3)_2$  MW =211.63

**Product code:** 320160500

**C.A.S. :** 10042-76-9

**500 gr**

**EINECS :** 233-131-9

|                             |           |
|-----------------------------|-----------|
| Assay (complexometric) %    | Min 98.0  |
| Chloride (Cl) %             | Max 0.005 |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.02  |
| Iron (Fe) %                 | Max 0.005 |
| Lead (Pb) %                 | Max 0.005 |



H272-H302-H315-H319-H335  
P221-P210-P220-P305-P351-P338-P405-P501A

## Strontium sulfate anhydrous

Laboratory Reagent  
 $\text{SrSO}_4$  MW =183.68

**Product code:** 320200500

**C.A.S. :** 7759-02-6

**500 gr**

**EINECS :** 231-850-2

|                                     |           |
|-------------------------------------|-----------|
| Assay %                             | Min 98    |
| Loss on ignition (20 min. 400 °C) % | Max 1.5   |
| Alkalies (as sulfates) %            | Max 1.0   |
| Chloride (Cl) %                     | Max 0.005 |
| Iron (Fe) %                         | Max 0.003 |

## Succinic acid

Analytical Reagent  
 $\text{C}_4\text{H}_6\text{O}_4$  MW =118.09

**Product code:** 119030100

**C.A.S. :** 110-15-6

**100 gr**

**EINECS :** 203-740-4

|                                        |            |
|----------------------------------------|------------|
| Assay %                                | Min 99.5   |
| Melting point °C                       | 185 - 190  |
| Insoluble matter %                     | Max 0.003  |
| Sulfated ash %                         | Max 0.01   |
| Chloride (Cl) %                        | Max 0.001  |
| Sulfate ( $\text{SO}_4$ ) %            | Max 0.002  |
| Ammonium ( $\text{NH}_4$ ) %           | Max 0.001  |
| Copper (Cu) %                          | Max 0.0005 |
| Iron (Fe) %                            | Max 0.0005 |
| Lead (Pb) %                            | Max 0.0005 |
| Substances reducing permanganate (O) % | Max 0.008  |



H318-H335-H315  
P261-P305-P351-P338-P302-P352-P321-P405-P501a

## Succinic anhydride

For Synthesis  
 $\text{C}_4\text{H}_4\text{O}_3$  MW =100.07

**Product code:** 519020500

**C.A.S. :** 108-30-5

**500 gr**

**EINECS :** 203-570-0

|                  |           |
|------------------|-----------|
| Assay %          | Min 99    |
| Melting point °C | 117 - 119 |



H302-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Sucrose

Analytical Reagent  
 $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  MW =342.30

**Product code:** 500111000

**C.A.S. :** 57-50-1

**1 kg**

**EINECS :** 200-334-9

|                                                                           |            |
|---------------------------------------------------------------------------|------------|
| Specific rotation (x) 20 °C (10.0% w/v aqueous solution) +66.4° to +66.6° |            |
| Insoluble matter %                                                        | Max 0.003  |
| Loss on drying at 100 °C %                                                | Max 0.05   |
| Sulfated ash %                                                            | Max 0.02   |
| Chloride (Cl) %                                                           | Max 0.0005 |
| Nitrogen compounds (N) %                                                  | Max 0.002  |
| Sulfate ( $\text{SO}_4$ ) %                                               | Max 0.002  |
| Copper (Cu) %                                                             | Max 0.0001 |
| Iron (Fe) %                                                               | Max 0.0001 |
| Lead (Pb) %                                                               | Max 0.0001 |
| Reducing sugars ( $\text{C}_6\text{H}_{12}\text{O}_6$ ) %                 | Max 0.01   |

## Sucrose

Laboratory Reagent  
 $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  MW =342.30

**Product code:** 501291000/2500

**C.A.S. :** 57-50-1

**1 kg**

**2.5 kg**

**EINECS :** 200-334-9

|                                               |                  |
|-----------------------------------------------|------------------|
| Specific Rotation 20°C (10% w/v aq. solution) | +66.4° to +66.6° |
| Sulfated ash %                                | Max 0.02         |
| Acidity or alkalinity reacting impurities     | Passes test      |
| Barium (Ba)                                   | Passes test      |
| Lead (Pb)                                     | Passes test      |
| Sulfite ( $\text{SO}_3$ ) %                   | Max 0.001        |
| Dextrines                                     | Passes test      |
| Dye stuffs                                    | Passes test      |
| Glucose, invert sugars                        | Passes test      |

## Sucrose

For Molecular Biology  
 $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  MW =342.30

**Product code:** 500480500

**C.A.S. :** 57-50-1

**500 gr**

**EINECS :** 200-334-9

|                                                  |                  |
|--------------------------------------------------|------------------|
| Assay %                                          | Min 99.5         |
| pH (of 1M soln. in water)                        | 5.0 – 7.0        |
| Specific Rotation $\frac{1}{4}$ (C=26% in water) | +65.5° to +67.5° |
| Maximum Absorbance (1M in water)                 |                  |
| at 260 nm                                        | 0.11             |
| 280 nm                                           | 0.08             |
| Loss on drying (at 100°C) %                      | Max 0.1          |
| Sulfated ash %                                   | Max 0.01         |
| Chloride (Cl) %                                  | Max 0.005        |
| Sulfate ( $\text{SO}_4$ ) %                      | Max 0.005        |
| Arsenic (As) %                                   | Max 0.00001      |
| Aluminium (Al) %                                 | Max 0.0005       |
| Bismuth (Bi) %                                   | Max 0.0005       |
| Zinc (Zn) %                                      | Max 0.0005       |
| Cadmium (Cd) %                                   | Max 0.0005       |
| Calcium (Ca) %                                   | Max 0.001        |
| Chromium (Cr) %                                  | Max 0.0005       |
| Cobalt (Co) %                                    | Max 0.0005       |
| Copper (Cu) %                                    | Max 0.0005       |
| Iron (Fe) %                                      | Max 0.0005       |
| Heavy metals (as Pb) %                           | Max 0.0005       |
| Lithium (Li) %                                   | Max 0.0005       |
| Magnesium (Mg) %                                 | Max 0.0005       |
| Manganese (Mn) %                                 | Max 0.0005       |
| Nickel (Ni) %                                    | Max 0.0005       |
| Potassium (K) %                                  | Max 0.005        |
| Sodium (Na) %                                    | Max 0.005        |
| Strontium (Sr) %                                 | Max 0.0005       |

## Sulfanilamide

Analytical Reagent  
 $C_6H_8N_2O_2S$  MW= 172.20

**Product code:** 202070100

**C.A.S. :** 63-74-1

**100 gr**

**EINECS :** 200-563-4

Assay (on dried material) %

Min 99

IR spectrum

Conforms to structure

Acid insoluble impurities

Passes test

Alkali insoluble impurities

Passes test

Melting range

163-166°C

Sulfate ( $SO_4$ ) %

Max 0.02

Chloride (Cl) %

Max 0.01

Heavy metals (as Pb) %

Max 0.002

Loss on drying (105 °C) %

Max 0.5

Sulfated ash %

Max 0.1



H315-H319-H335-H303

P261-P280-P305-P351-P338-P304-P405-P501A

## 5-Sulphosalicylic acid dihydrate

Laboratory Reagent  
 $C_7H_6O_6S \cdot 2H_2O$  MW =254.21

**Product code:** 121020250

**C.A.S. :** 5965-83-3

**250 gr**

**EINECS :** 202-555-6

Assay %

Min 99

Sulfated ash %

Max 0.1

Iron (Fe) %

Max 0.001

Heavy metals (Pb) %

Max 0.01

Chloride (Cl) %

Max 0.01



H314-H302

P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501

## Sulfuric Acid 0.05 M (0.1N)

Standardized solution  
traceable to NIST  
 $H_2SO_4$  MW =98.08

**Product code:** BVS18001

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

## Sulfuric Acid 0.1 M (0.2N)

Standardized solution  
traceable to NIST  
 $H_2SO_4$  MW =98.08

**Product code:** BVS18002

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

## Sulfuric Acid 0.25 M (0.5N)

Standardized solution  
traceable to NIST  
 $H_2SO_4$  MW =98.08

**Product code:** BVS18005

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

## Sulfuric Acid 0.5 M (1N)

Standardized solution  
traceable to NIST  
 $H_2SO_4$  MW =98.08

**Product code:** BVS18010

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

## Sulfuric Acid 1 M (2N)

Standardized solution  
traceable to NIST  
 $H_2SO_4$  MW =98.08

**Product code:** BVS18020

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

## Sulfuric acid 98 %

Analytical Reagent  
 $\text{H}_2\text{SO}_4$  MW= 98.08

**Product code:** 119042500

**C.A.S. :** 7664-93-9

**2.5 L**

**EINECS :** 231-639-5

|                                      |              |
|--------------------------------------|--------------|
| Assay %                              | Min 98       |
| Non-volatile matter %                | Max 0.002    |
| Chloride (Cl) %                      | Max 0.00002  |
| Nitrate ( $\text{NO}_3$ ) %          | Max 0.00002  |
| Ammonium ( $\text{NH}_4$ ) %         | Max 0.0002   |
| Arsenic (As) %                       | Max 0.000005 |
| Copper (Cu) %                        | Max 0.00001  |
| Iron (Fe) %                          | Max 0.0001   |
| Lead (Pb) %                          | Max 0.0001   |
| Selenium (Se) %                      | Max 0.001    |
| Substances reducing permanganate (O) | Max 0.0001   |



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

## Sulfuric acid 98 %

Laboratory Reagent  
 $\text{H}_2\text{SO}_4$  MW= 98.08

**Product code:** 119012500

**C.A.S. :** 7664-93-9

**2.5 L**

**EINECS :** 231-639-5

|                                          |                 |
|------------------------------------------|-----------------|
| Assay (acidimetric) %                    | Min 98          |
| Chloride (Cl) %                          | Max 0.0002      |
| Nitrate ( $\text{NO}_3$ ) %              | Max 0.0001      |
| Heavy metals (as Pb) %                   | Max 0.0005      |
| Ammonium ( $\text{NH}_4$ ) %             | Max 0.0005      |
| Arsenic (As) %                           | Max 0.00001     |
| Iron (Fe) %                              | Max 0.0002      |
| Substances reducing by $\text{KMnO}_4$ % | Max 0.02 ml N/1 |
| Residue on ignition %                    | Max 0.005       |
| Wt. per ml at 20 °C                      | About 1.84      |



H314

P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501



## Tannic acid

Analytical Reagent

$C_{76}H_{52}O_{46}$  MW = 1701.20

**Product code:** 120050100

**C.A.S. :** 1401-55-4

**100 gr**

**EINECS :** 215-753-2

Heavy metals (as Pb) %

Max 0.003

Arsenic (As) %

Max 0.0003

Loss on drying (at 105 °C) %

Max 12

Sulfated ash %

Max 0.1

## L-(+)-Tartaric acid

Laboratory Reagent

$C_4H_6O_6$  MW = 150.09

**Product code:** 120030500

**C.A.S. :** 87-69-4

**500 gr**

**EINECS :** 201-766-0

Assay %

Min 99.5

Chloride (Cl) %

Max 0.002

Sulfate (SO<sub>4</sub>) %

Max 0.015

Oxalate (C<sub>2</sub>O<sub>4</sub>) %

Max 0.05

Heavy metals (as Pb) %

Max 0.001

Lead (Pb) %

Max 0.001

Copper (Cu) %

Max 0.001

Zinc (Zn) %

Max 0.001

Arsenic (As) %

Max 0.0001

Loss on drying (at 105 °C) %

Max 0.5

Sulfated ash %

Max 0.05



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Tartrazine

For Microscopy

$C_{16}H_9N_4Na_3O_3S_2$  MW = 534.37

**Product code:** 120060025

**C.A.S. :** 1934-21-0

**25 gr**

**EINECS :** 217-699-5

Absorption maxima in water

421 - 427nm

Absorptivity, 1cm, I<sub>max</sub>

Min 400

Loss on drying at 135 °C %

Max 15



H334-H317

P285-P261-P280-P302-P352-P321-P501a

## TCBS agar

For Microbiology

**Product code:** DM2640500

**500 gr**

Proteose peptone

10.000 G/L

Yeast extract

5.000 G/L

Sodium thiosulfate

10.000 G/L

Sodium citrate

10.000 G/L

Oxgall

8.000 G/L

Sucrose

20.000 G/L

Sodium chloride

10.000 G/L

Ferric citrate

1.000 G/L

Bromo thymol blue

0.040 G/L

Thymol blue

0.040 G/L

Agar

15.000 G/L

Final pH (at 25 °C)

8.6 ~ 0.2

pH range

8.40 - 8.80

Reaction reaction of 8.9% w/v aqueous solution at 25 °C pH 8.6 ~ 0.2

## Terpineol anhydrous

Laboratory Reagent

$C_{10}H_{16}O$  MW = 154.25

**Product code:** 102170500

**C.A.S. :** 8006-39-1

**500 ml**

Appearance

Colorless to yellowish liquid

Mixture of isomers Contains %

~65%, ~20%, ~10

Water %

Max. 0.5

Density (d<sub>20</sub>°C/4 °C)

~0.934

Refractive index (n<sub>20</sub>°C)

~1.483



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Tert-Butanol

Analytical Reagent

$C_4H_{10}O$  MW = 74.12

**Product code:** 220020500

**C.A.S. :** 75-65-0

**500 ml**

**EINECS :** 200-889-7

Assay (GC) %

Min 99

Wt. per ml at 30 °C

0.773 - 0.778 g

Freezing point °C

Min 25

Refractive index

1.384 - 1.386

Water %

Max 0.5

Acidity (CH<sub>3</sub>COOH) %

Max 0.003

Non volatile matter %

Max 0.001

Aldehydes and ketones (C<sub>3</sub>H<sub>7</sub>CHO) %

Max 0.01

Butan-2-ol [C<sub>4</sub>H<sub>9</sub>(OH)] %

Max 0.2

Copper (Cu) %

Max 0.00005

Iron (Fe) %

Max 0.00005

Lead (Pb) %

Max 0.00005



H225-H332-H319-H335

P210-P241-P303-P361-P353-P305-P351-P338-P405-P501

## Tetramethyl ammonium hydroxide solution in water

Laboratory Reagent

(CH<sub>3</sub>)<sub>4</sub>N.OH MW = 91.15

**Product code:** 303160100

**C.A.S. :** 75-59-2

**100 ml**

**EINECS :** 200-882-9

Appearance

Clear colorless solution

Assay (acidimetric) %

24 - 26

Wt. per ml at 20 °C

~1.02 g

Sulfated ash %

Max 0.1

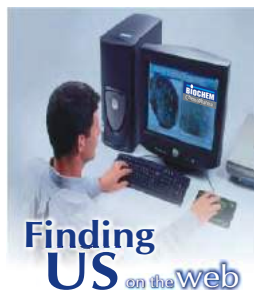
Halide (as Cl) %

Max 0.2



H300-H310-H370-H372-H314-H411

P260-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A



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**N,N,N'-Tetramethylethylenediamine** Analytical Reagent  
 $C_6H_{16}N_2$  MW =116.21

**Product code:** 520050100/0250  
**C.A.S. :** 110-18-9  
**EINECS :** 203-744-6

Assay % Min 99  
 Iron (Fe) % Max 0.00001  
 Water % Max 0.5  
 Sulfated ash % Max 0.005  
 Refractive index ~1.4179



H225-H314-H302-H332  
 P210-P260-P303-P361-P353-P305+P351-P338-P405-P501A

**Thiamine hydrochloride** For Biochemistry  
 $C_{12}H_{18}Cl_2N_4OS.H_2O$  MW= 337.27

**Product code:** 520420010  
**C.A.S. :** 67-03-8  
**EINECS :** 200-641-8

Assay % Min 99



H315-H319-H335  
 P261-P280-P305-P351-P338-P304-P340-P405-P501A

**Thioacetamide** Analytical Reagent  
 $CH_3CSNH_2$  MW =75.13

**Product code:** 520080100  
**C.A.S. :** 62-55-5  
**EINECS :** 200-541-4

Assay (ex N) % Min 99  
 Heavy metals (as Pb) % Max 0.001  
 Iron (Fe) % Max 0.0005  
 Sulfated ash % Max 0.05  
 Melting point °C 111 - 114



H350-H302-H315-H319-H412  
 P280-P302-P352-P305-P351-P338-P321-P405-P501a

**Thioglycollate agar** For Microbiology

**Product code:** DM2650500  
**C.A.S. :** 76-61-9  
**EINECS :** 200-973-3

Casein enzymic hydrolysate 15.000 G/L  
 Dextrose 5.500 G/L  
 Sodium chloride 2.500 G/L  
 Yeast extract 5.000 G/L  
 Sodium thioglycollate 0.500 G/L  
 L-Cystine 0.500 G/L  
 Resazurin sodium salt 0.001 G/L  
 Agar 20.000 G/L  
 Final pH (at 25°C) 7.1 ~ 0.2

**Thionyl chloride** For Synthesis  
 $SOCl_2$  MW =118.97

**Product code:** 113060500  
**C.A.S. :** 7719-09-7  
**EINECS :** 231-748-8

Assay (iodometric/ex Cl) % 99.0 - 101  
 Wt. per ml at 20°C About 1.64 g



H314-H302-H332  
 P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

**Thiourea** Analytical Reagent  
 $NH_2.CS.NH_2$  MW =76.12

**Product code:** 520010500  
**C.A.S. :** 62-56-6  
**EINECS :** 200-543-5

Assay % Min 99  
 Melting point °C 174 - 178  
 Water insoluble matter % Max 0.005  
 Sulfated ash % Max 0.05  
 Sulfate ( $SO_4$ ) % Max 0.01  
 Iron (Fe) % Max 0.0005  
 Loss on drying (at 105 °C) % Max 0.5



H351-H361-H302-H411  
 P273-P280h

**L-Threonine** For Biochemistry  
 $C_4H_9NO_3$  MW =119.12

**Product code:** 520300005/0025  
**C.A.S. :** 72-19-5  
**EINECS :** 200-774-1

Assay ( $HClO_4$  titration) % Min 99  
 Heavy metals (as Pb) % Max 0.001  
 Ammonium ( $NH_4$ ) % Max 0.01  
 Foreign amino acids % Max 0.3  
 Other ninhydrin positive substances (as glycine) % Max 0.1

**Thymol blue indicator** Analytical Reagent  
 $C_{27}H_{30}O_5S$  MW =466.60

**Product code:** 303410005/0025  
**C.A.S. :** 76-61-9  
**EINECS :** 200-973-3

Acidic range pH 1.2-2.8 Red to yellow  
 Alkaline range pH 8.0-9.6 Yellow to blue  
 Loss on drying % Max 10  
 Dye content (By Spectrophotometry) % Min. 95.0

**Titan yellow** Analytical Reagent  
 $C_{28}H_{19}N_5Na_2O_6S_4$  MW =695.73

**Product code:** 420260010  
**C.A.S. :** 1829-00-1

pH 12.0 - 13.0 Yellow to red  
 Absorption maxima 398 - 402 nm  
 Loss on drying (at 110°C) % Max 8

## Titanium (IV) oxide

Analytical Reagent  
 $\text{TiO}_2$  MW =79.90

**Product code:** 320150500

**C.A.S. :** 13463-67-7

**500 gr**

**EINECS :** 236-675-5

Assay %  
Heavy metals (as Pb) %  
Iron (Fe) %  
Arsenic (As) %  
Antimony (Sb) %  
Soluble in acid (HCl 0.5 mol/L) %  
Loss on drying (at 105 °C) %  
Loss on ignition (at 1000 °C; 2h) %

Min 99.5  
Max 0.002  
Max 0.02  
Max 0.0003  
Max 0.005  
Max 0.5  
Max 0.5  
Max 0.5



H351  
P281-P201-P202-P308-P313-P405-P501A

## Toluene

Analytical Reagent  
 $\text{C}_7\text{H}_8$  MW =92.14

**Product code:** 220092500

**C.A.S. :** 108-88-3

**2.5 L**

**EINECS :** 203-625-95

Assay (by GC) %  
Water (KF) %  
Acidity (meq/g) (meq/g)  
Residue on Evaporation %  
Sulfur Compounds %

Min 99.5  
Max 0.03  
Max 0.0005  
Max 0.002  
Max 0.0003



H225-H304-H361-H373-H315-H336  
P210-P260-P301-P310-P303-P361-P353-P405-P501A

## Toluene

Laboratory Reagent  
 $\text{C}_7\text{H}_8$  MW =92.14

**Product code:** 220012500

**C.A.S. :** 108-88-3

**2.5 L**

**EINECS :** 203-625-95

Assay (by GC) %  
Water (KF) %  
Residue on Evaporation %  
Acidity (meq/g) (meq/g) %

Min 99.0  
Max 0.1  
Max 0.005  
Max 0.0005



H225-H304-H361-H373-H315-H336  
P210-P260-P301-P310-P303-P361-P353-P405-P501A

## Toluene

For HPLC & Spectroscopy  
 $\text{C}_7\text{H}_8$  MW =92.14

**Product code:** 220351000

**C.A.S. :** 108-88-3

**1 L**

**EINECS :** 203-625-95

Assay (GC) %  
Non volatile matter %  
Water %  
Absorbance in 1.0 cm cell against water at:  
285 nm  
290 nm  
300 nm  
310 nm  
335 nm  
350 nm

Min 99.8  
Max 0.0001  
Max 0.05  
Max 1.00  
Max 0.50  
Max 0.20  
Max 0.10  
Max 0.02  
Max 0.01



H225-H304-H361-H373-H315-H336  
P210-P260-P301-P310-P303-P361-P353-P405-P501A

## Toluidine blue

For Microscopy  
 $\text{C}_{15}\text{H}_{16}\text{ClN}_3\text{S}$  MW =305.8

**Product code:** 303350025

**C.A.S. :** 92-31-9

**25 gr**

**EINECS :** 202-146-2

Dye content (By spectrophotometry) %  
Absorption maximum in water  
Solubility (0.1%; water)  
Absorptivity (0.005g/l in  $\text{H}_2\text{O}$ )  
Loss on drying (at 110 °C) %

Min 80  
628 - 633 nm  
Clear solution  
Min 1200  
Max 8

## o-Toluidine

Analytical Reagent  
 $\text{C}_7\text{H}_9\text{N}$  MW =107.16

**Product code:** 220190500

**C.A.S. :** 95-53-4

**500 ml**

**EINECS :** 202-429-0

Assay (GC) %  
Wt. Per ml at 20 °C  
Chloride (Cl) %  
Heavy metals (Pb) %  
Iron (Fe) %  
Water %  
Sulfated ash %  
Suitability for glucose determination

Min 99.5  
0.998 - 1.000g  
Max 0.0005  
Max 0.0001  
Max 0.0001  
Max 0.1  
Max 0.005  
Passes test



H301-H331-H319-H350-H400-H227-H313  
P273-P201-P309-P310

## P-Toluidine

Analytical Reagent  
 $\text{C}_7\text{H}_9\text{N}$  MW =107.16

**Product code:** 301670100

**C.A.S. :** 106-49-0

**100 gr**

**EINECS :** 203-403-1

Assay %  
Melting point  
Insoluble matter in dil HCl %  
Sulfated ash %  
p-Nitrotoluene ( $\text{CH}_3\text{C}_6\text{H}_4\text{NO}_2$ ) %  
Toluene ( $\text{C}_6\text{H}_5\text{CH}_3$ ) %  
m-Toluidine ( $\text{CH}_3\text{C}_6\text{H}_4\text{NH}_2$ ) %  
o-Toluidine ( $\text{CH}_3\text{C}_6\text{H}_4\text{NH}_2$ ) %

Min 99  
42 - 44 °C  
Max 0.01  
Max 0.02  
Max 0.001  
Max 0.1  
Max 0.3  
Max 0.1



H301-H311-H331-H319-H317-H351-H400  
P280H-P273-P309-P310-P302-P352



## Trehalose dihydrate

For Biochemistry

$C_{12}H_{22}O_{11} \cdot 2H_2O$  MW =378.34

**Product code:** 220390005

**C.A.S. :** 6138-23-4

**5 gr**

**EINECS :** 202-739-6

|                                                 |                |
|-------------------------------------------------|----------------|
| Assay %                                         | Min 99         |
| Melting point on dried substance (at 130 °C) °C | 210 - 215      |
| Loss on drying (at 130 °C) %                    | 9 - 10         |
| Specific rotation 5% in water                   | +177° to +180° |
| Sulfated ash %                                  | Max 0.2        |

## tri-Ammonium citrate

Analytical Reagent

$C_6H_{17}N_3O_7$  MW =243.22

**Product code:** 300290500

**C.A.S. :** 3458-72-8

**500 gr**

**EINECS :** 222-394-5

|                          |            |
|--------------------------|------------|
| Assay %                  | 98.5 - 101 |
| pH (5% solution)         | 6.0 - 7.5  |
| Water insoluble matter % | Max 0.005  |
| Chloride (Cl) %          | Max 0.001  |
| Oxalate ( $C_2O_4$ ) %   | Max 0.01   |
| Sulfate ( $SO_4$ ) %     | Max 0.005  |
| Copper (Cu) %            | Max 0.0001 |
| Iron (Fe) %              | Max 0.0005 |
| Lead (Pb) %              | Max 0.0005 |
| Potassium (K) %          | Max 0.003  |
| Sodium (Na) %            | Max 0.004  |



H315-H319-H335

P261-P305-P351-P338-P302-P352-P321-P405-P501

## Trichloroacetic acid

Analytical Reagent

$Cl_3CCO_2H$  MW =163.39

**Product code:** 120010500

**C.A.S. :** 76-03-9

**500 gr**

**EINECS :** 200-927-2

|                                 |             |
|---------------------------------|-------------|
| Assay %                         | Min 99      |
| Freezing point                  | Min 56 °C   |
| Insoluble matter %              | Max 0.005   |
| Heavy metals (as Pb) %          | Max 0.002   |
| Chloride (Cl) %                 | Max 0.001   |
| Nitrate ( $NO_3$ ) %            | Max 0.002   |
| Phosphate ( $PO_4$ ) %          | Max 0.0005  |
| Sulfate ( $SO_4$ ) %            | Max 0.02    |
| Residue on ignition %           | Max 0.02    |
| Iron (Fe) %                     | Max 0.001   |
| Substance darkened by $H_2SO_4$ | Passes test |



H314-H400-H410

P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

## Trichloroacetic acid

Laboratory Reagent

$Cl_3CCO_2H$  MW =163.39

**Product code:** 120130500

**C.A.S. :** 76-03-9

**500 gr**

**EINECS :** 200-927-2

|                       |             |
|-----------------------|-------------|
| Assay (acidimetric) % | Min 98.0    |
| Freezing point °C     | 55.5 - 58.0 |
| Sulfated ash %        | Max 0.02    |
| Chloride (Cl) %       | Max 0.02    |
| Sulfate ( $SO_4$ ) %  | Max 0.02    |



H314-H400-H410

P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

## Trichloroethylene

Analytical Reagent

$C_2HCl_3$  MW =131.79

**Product code:** 220340500

**C.A.S. :** 79-01-6

**500 ml**

**EINECS :** 201-167-4

|                        |                  |
|------------------------|------------------|
| Assay %                | Min 99.5         |
| APHA colour            | Max 10           |
| Non volatile matter %  | Max 0.001        |
| Ethanol %              | Max 0.5          |
| Tetrachloroethylene %  | Max 0.05         |
| Free halogens          | Passes test      |
| Acidity                | Max 0.0001 meq/g |
| Alkalinity             | Max 0.0003 meq/g |
| Water ( $H_2O$ ) %     | Max 0.02         |
| Chloride (Cl) %        | Max 0.0004       |
| Heavy metals (as Pb) % | Max 0.001        |



H350-H341-H315-H319-H336-H412

P261-P280-P281-P305-P351-P338-P405-P501A

## Triethylamine

Analytical Reagent

$(C_2H_5)_3N$  MW =101.19

**Product code:** 301930500

**C.A.S. :** 121-44-8

**500 ml**

**EINECS :** 204-469-4

|                       |                    |
|-----------------------|--------------------|
| Assay %               | Min 99.5           |
| Wt. per ml at 20 °C   | 0.727 g            |
| Colour                | Max 10 Hazen units |
| Water %               | Max 0.1            |
| Non-volatile matter % | Max 0.01           |
| Aluminium (Al) %      | Max 0.000005       |
| Barium (Ba) %         | Max 0.000002       |
| Cadmium (Cd) %        | Max 0.000002       |
| Calcium (Ca) %        | Max 0.00005        |
| Chromium (Cr) %       | Max 0.000002       |
| Cobalt (Co) %         | Max 0.000002       |
| Copper (Cu) %         | Max 0.000002       |
| Iron (Fe) %           | Max 0.00002        |
| Lead (Pb) %           | Max 0.000002       |
| Magnesium (Mg) %      | Max 0.000002       |
| Manganese (Mn) %      | Max 0.000002       |
| Nickle (Ni) %         | Max 0.000002       |
| Potassium (K) %       | Max 0.000005       |
| Sodium (Na) %         | Max 0.00005        |
| Strontium (Sr) %      | Max 0.000002       |
| Zinc (Zn) %           | Max 0.00001        |
| U.V. Absorbance       | Passes test        |



H225-H314-H302-H312-H332

P210-P260-P303-P361-P353-P305-P351-P338-P405-P501A

## Trifluoroacetic acid

For Synthesis  
 $C_2HF_3O_2$  MW =114.02

**Product code:** 301920100

**C.A.S. :** 76-05-1

**100 ml**

**EINECS :** 200-929-3

Assay (by acidimetry) %

Min 98

Density (d20 deg/4 °C)

1.487 - 1.489

Refractive index

1.2995-1.3005



H314-H332-H412

P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501

## Tris(hydroxymethyl)aminomethane

For Molecular biology  
 $NH_2C(CH_2OH)_3$  MW =297.95

**Product code:** 520140100

**C.A.S. :** 77-86-1

**100 gr**

**EINECS :** 201-064-4

Assay (Acidimetric, on dried material) %

Min9.8

Melting point °C

168-172

pH (of 1M soln. in water)

10.5 – 12.0

Loss on drying (at 105°C) %

Max 0.5

Maximum UV Absorbance (1M soln. in HPLC water) at 260 nm

0.04

Maximum UV Absorbance (40% soln. in HPLC water, 1cm) at 290 nm

0.05

Insoluble matter

Passes filter test

Chloride (Cl) %

Max 0.02

Sulfate ( $SO_4$ ) %

Max 0.005

Iron (Fe) %

Max 0.005

Heavy metals (as Pb) %

Max 0.002



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Tripe sugar iron agar TSI

For Microbiology

**Product code:** DM2350500

**500 gr**

Peptic digest of animal tissue

10.000 G/L

Casein enzymic hydrolysate

10.000 G/L

Yeast extract

3.000 G/L

Beef extract

3.000 G/L

Lactose

10.000 G/L

Sucrose

10.000 G/L

Dextrose

1.000 G/L

Sodium chloride

5.000 G/L

Ferrous sulfate

0.200 G/L

Sodium thiosulfate

0.300 G/L

Phenol red

0.024 G/L

Agar

12.000 G/L

Final pH (at 25°C)

7.4 ~ 0.2

pH range

7.20 - 7.60

Reaction reaction of 6.4% w/v aqueous solution at 25°C pH 7.4 ~ 0.2

## Tris hydrochloride

Analytical Reagent

$C_4H_{11}NO_3.HCl$  MW =157.60

**Product code:** 520040100

**C.A.S. :** 1185-53-1

**100 gr**

**EINECS :** 214-684-5

Assay (Cl) %

Min 99

pH (0.5M in water, 20°C)

3.5 - 5.0

Loss on drying (at 110°C) %

Max 0.2

Residue on ignition ( $SO_4$ , at 900°C) %

Max 0.2

Solubility (0.5 M in water, at 20 °C)

Complete and colourless

Insoluble matter

Passes filter test

Absorption max (0.5 M in water):

At 260 nm

Max 0.015

At 280 nm

Max 0.010

## Triton X 100

Laboratory Reagent

**Product code:** 318550500

**C.A.S. :** 9002-93-1

**500 ml**

Wt per ml at 20 °C

About 1.06 gm

pH 5% aqueous solution

6 - 8



H302-H319-H411

P273-P305-P351-P338

## Tris(hydroxymethyl)aminomethane buffer

Analytical Reagent

$NH_2C(CH_2OH)_3$  MW =121.14

**Product code:** 520000100

**C.A.S. :** 77-86-1

**100 gr**

**EINECS :** 201-064-4

Assay ( $HClO_4$ ) titration on anhydrous substances. %

Min 99.5

pH (5% water)

10 - 11

Absorptivity A 250 - 440 nm (1cm; 10% water)

Passes test

Melting point °C

169 - 171

Chloride (Cl) %

Max 0.001

Sulfated ash %

Max 0.01

Water %

Max 0.5

Biological buffer at 25°C

pKa 8.07



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Trypan blue

For Microscopy

**Product code:** 420030025

**C.A.S. :** 72-57-1

**25 gr**

**EINECS :** 200-786-7

Dye content %

Min 70



H350-H361

P201-P202-P281-P308-P313-P405-P501a

## Tris(hydroxymethyl)aminomethane buffer

Laboratory Reagent

$NH_2C(CH_2OH)_3$  MW =121.14

**Product code:** 520290500

**C.A.S. :** 77-86-1

**500 gr**

**EINECS :** 201-064-4

Assay %

Min 99.0

Melting point °C

165 - 170

Sulphated ash %

Max 0.15

Biological buffer pKa at 20°C

about 8.3



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Trypsin 1: 250

Laboratory Reagent

**Product code:** 303480025

**C.A.S. :** 9002-07-7

**25 gr**

**EINECS :** 232-650-8

Appearance

Light brown Colored powder



H334-H335-H315-H319

P285-P261-P280-P305-P351-P338-P405-P501A

## Trypsin 2000 U/G

Laboratory Reagent

**Product code:** 303500100

**100 gr**

**C.A.S. :** 9002-07-7

Solubility in water %

Min 98

Loss on drying %

Max 5

Pathogenic germs

Absent

Salmonella

Absent

Escherichia coli

Absent

Pseudomonas aeruginosa

Absent

Staphylococcus aureus

Absent



H315-H319-H334-H335

P261-P305-P351-P338-P342-P311

## Tryptone type-(I)

For Microbiology

**Product code:** DM1090500

**500 gr**

## DL-Tryptophan

For Biochemistry

$C_{11}H_{12}N_2O_2$  MW =204.23

**Product code:** 318580025

**C.A.S. :** 54-12-6

**25 gr**

**EINECS :** 233-886-4

Assay (Non - Aqueous) %

Min 9.0

Iron (Fe) %

Max 0.03

Heavy metals (as Pb) %

Max 0.01

Loss on drying (105°C) %

Max 0.5



H300-H310-H330-H272-H373-H400-H410

P221-P301-P310-P304-P340-P320-P330-P361-P405-P501A

## L-Tryptophan

For Biochemistry

$C_{11}H_{12}N_2O_2$  MW =204.23

**Product code:** 318570025

**C.A.S. :** 73-22-3

**25 gr**

**EINECS :** 200-795-6

Assay (HClO<sub>4</sub> titration) %

Min 99

Heavy metals (as Pb) %

Max 0.001

Ammonium (NH<sub>4</sub>) %

Max 0.01

Foreign amino acids %

Max 0.3

Other ninhydrin-positive substances (as glycine)

Max 0.1

## Tween-20

Laboratory Reagent

$C_{58}H_{114}O_{26}$  MW =1227.72

**Product code:** 520200500

**C.A.S. :** 9005-64-5

**500 ml**

Hydroxyl number

97 - 113

Saponification value

40 - 51

Density (d20°C/4°C)

1.105 - 1.107

## Tween-80

Laboratory Reagent

**Product code:** 520800500

**C.A.S. :** 9005-64-5

**500 ml**

Refractive Index

1.471-1.473

Acid value

Max 2

Saponification Value

45-55

Viscosity at 25 °C

400-500 cSt

Water %

Max 3.0

Wt/ml at 20 °C

1.077-1.081

## L-Tyrosine

For Biochemistry

$C_9H_9NO_3$  MW =181.19

**Product code:** 520250025

**C.A.S. :** 60-18-4

**25 gr**

**EINECS :** 200-460-4

Assay (HClO<sub>4</sub> titration) %

Min 99

Heavy metals (as Pb) %

Max 0.001

Ammonium (NH<sub>4</sub>) %

Max 0.01

Foreign amino acids %

Max 0.3

Other ninhydrin-positive substances (as glycine) %

Max 0.1



H315-H319-H335

P261-P305-P351-P338-P302-P352-P321-P405-P501A



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## Urea agar base (Christensen)

For Microbiology

**Product code:** DM2660500

**500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Peptic digest of animal tissue | 1.000 G/L                                                  |
| Dextrose                       | 1.000 G/L                                                  |
| Sodium chloride                | 5.000 G/L                                                  |
| Disodium phosphate             | 1.200 G/L                                                  |
| Monopotassium phosphate        | 0.800 G/L                                                  |
| Phenol red                     | 0.012 G/L                                                  |
| Agar                           | 15.000 G/L                                                 |
| Final pH (at 25°C)             | 6.8 ~ 0.2                                                  |
| PH range                       | 6.60 - 7.00                                                |
| Reaction                       | reaction of 2.4% w/v aqueous solution at 25°C pH 6.8 ~ 0.2 |

## Urea cryst. Pure

Laboratory Reagent

$\text{NH}_2\text{CONH}_2$  MW =60.06

**Product code:** 521030500

**C.A.S. :** 57-13-6

**500 gr**

**EINECS :** 200-315-5

|                             |            |
|-----------------------------|------------|
| Assay (Kjeldahl) %          | Min 9.0    |
| Melting Point °C            | 131° - 134 |
| Sulfated ash %              | Max 0.1    |
| Chloride (Cl) %             | Max 0.02   |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.05   |

## L-Valine

For Biochemistry

$\text{C}_5\text{H}_{11}\text{NO}_2$  MW =117.15

**Product code:** 522020025

**C.A.S. :** 72-18-4

**25 gr**

**EINECS :** 200-773-6

|                                                    |           |
|----------------------------------------------------|-----------|
| Assay %                                            | Min 99    |
| Heavy metals (as Pb) %                             | Max 0.001 |
| Ammonium ( $\text{NH}_4$ ) %                       | Max 0.01  |
| Foreign amino acids %                              | Max 0.3   |
| Other ninhydrin positive substances (as glycine) % | Max 0.1   |

## Vanillin

For Synthesis

$\text{CH}_3\text{O.C}_6\text{H}_5(\text{OH}).\text{CHO}$  MW =152.15

**Product code:** 406170100

**C.A.S. :** 121-33-5

**100 gr**

**EINECS :** 204-465-2

|                  |         |
|------------------|---------|
| Assay %          | Min 99  |
| Melting point °C | 81- 83  |
| Sulfated ash %   | Max 0.1 |



H302-H332

P261-P264-P304-P340-P301-P312-P501A

## Violet red bile agar

For Microbiology

**Product code:** DM2670500

**500 gr**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Peptic digest of animal tissue | 7.000 G/L                                                   |
| Yeast extract                  | 3.000 G/L                                                   |
| Lactose                        | 10.000 G/L                                                  |
| Bile salts mixture             | 1.500 G/L                                                   |
| Sodium chloride                | 5.000 G/L                                                   |
| Neutral red                    | 0.030 G/L                                                   |
| Crystal violet                 | 0.002 G/L                                                   |
| Agar                           | 15.000 G/L                                                  |
| Final pH (at 25°C)             | 7.4 ~ 0.1                                                   |
| pH range                       | 7.30 - 7.50                                                 |
| Reaction                       | reaction of 4.15% w/v aqueous solution at 25°C pH 7.4 ~ 0.1 |

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## Water

For HPLC  
H<sub>2</sub>O MW =18.02

**Product code:** 522111000

**C.A.S. :** 7732-18-5

**1 L**

**EINECS :** 231-791-2

pH 5 - 7  
Residue on evaporation % Max 0.0005  
UV transmission (with air as blank):  
At 200 nm % Min 100  
At 250 nm % Min 100  
Colour Max 10 Hazen

## Water

LC-MSChrom  
H<sub>2</sub>O MW =18.02

**Product code:** 522162500

**C.A.S. :** 7732-18-5

**2.5 L**

**EINECS :** 231-791-2

Colour (j.Hz) Max 5  
Specific elektrolitic conductance(25°C) (uS/cm) % Max 2  
Total Organic Carbon (TOC) % Max 0.2  
Phenolphthalein presence not contain not contain  
Gradient specifications (254 nm) -Largest peak (mAU) Max 2  
Magnesium (Mg) (ppm) Max 0.1  
Potassium (K) (ppm) Max 0.1  
Sodium (Na) (ppm) Max 0.1  
Calcium (Ca) (ppm) Max 0.1  
Filtration (0,2 um) passes test passes test  
Interfering of peaks caused by impurities determined as:  
- Lindane (GC/ECD) max.5ng/l or Parathion (GC/NPD)  
Max.10ng/l passes test

## Xanthine

For Biochemistry  
C<sub>5</sub>H<sub>4</sub>N<sub>4</sub>O<sub>2</sub> MW =152.11

**Product code:** 522140005

**C.A.S. :** 69-89-6

**5 gr**

**EINECS :** 200-718-6

Assay % Min 98  
Heavy metals (as Pb) % Max 0.001

## Xylene

Analytical Reagent  
C<sub>8</sub>H<sub>10</sub> MW =106.17

**Product code :** 522152500

**C.A.S. :** 1330-20-7

**2.5 L**

**EINECS :** 215-535-7

Assay (by GC) % Min 98.0  
Water % Max 0.05  
Residue on Evaporation % Max 0.002  
Acidity (meq/g) (meq/g) Max 0.0005  
Sulfur Compounds % Max 0.001  
Benzene % Max 0.1  
Assay of toluene % Max 0.5



H226-H312-H332-H315  
P210-P262-P302+P352

## m-Xylene

For Synthesis  
C<sub>8</sub>H<sub>10</sub> MW =106.17

**Product code :** 522180500

**C.A.S. :** 108-38-3

**500 ml**

**EINECS :** 203-576-3

Assay % Min 99  
Desnity (d20°/4°C) ~0.864  
Free acid (as HCl) % Max 0.002  
Ethyl benzene % Max 0.1  
o-Xylene % Max 0.5  
p-Xylene % Max 0.3  
Toluene % Max 0.1



H226-H312-H332-H315-H303  
P210-P262-P302-P352

## o-Xylene

For Synthesis  
C<sub>8</sub>H<sub>10</sub> MW =106.17

**Product code :** 522190500

**C.A.S. :** 95-47-6

**500 ml**

**EINECS :** 202-422-2

Assay % Min 98  
Desnity (d20°/4°C) 0.878 - 0.881  
Refractive index (n20°/D) ~1.5054



H226-H312-H332-H315  
P210-P262-P302-P352



## p-Xylene

For Synthesis  
 $C_8H_{10}$  MW =106.17

**Product code :** 522200500

**C.A.S. :** 106-42-3

**500 ml**

**EINECS :** 203-396-5

Assay %

Min 99

Desnity (d20°/4°C)

0.860 - 0.862

Refractive index (n20°/D)

~1.4958



H314-H226

P210-P260-P303-P361-P353-P305-P351-P338-P405-P501A

## p-Xylenol blue indicator

Analytical Reagent  
 $C_{23}H_{22}O_5S$  MW =410.49

**Product code :** 522230001

**C.A.S. :** 125-31-5

**1 gr**

**EINECS :** 204-736-5

Active range pH 1.2 - 3.8

Red to yellow

Alkaline range pH 8.0 - 9.6

Yellow to blue



H315-H319-H335

P261-P280-P305-P351-P338-P304-P340-P405-P501A



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## Zinc acetate dihydrate

Analytical Reagent  
 $(CH_3COO)_2Zn \cdot 2H_2O$  MW =219.50

**Product code :** 326010500

**C.A.S. :** 5970-45-6

**500 gr**

**EINECS :** 209-170-2

Assay %

Min 99.5

Insoluble matter %

Max 0.003

Chloride (Cl) %

Max 0.001

Nitrogen compounds (N) %

Max 0.002

Sulfate ( $SO_4$ ) %

Max 0.005

Cadmium (Cd) %

Max 0.0005

Calcium (Ca) %

Max 0.001

Copper (Cu) %

Max 0.0005

Iron (Fe) %

Max 0.0005

Lead (Pb) %

Max 0.0005

Sodium (Na) %

Max 0.001



H400-H410-H302-H319

P280-P273-P305-P351-P338-P301-P312-P337-P313-P501A

## Zinc carbonate basic

Laboratory Reagent  
 $[ZnCO_3]_2 [Zn(OH)_2]_3$  MW =549.02

**Product code :** 326020500

**C.A.S. :** 5263-02-5

**500 gr**

**EINECS :** 226-076-7

Assay (complexometry Zn) %

Min 47

Chloride (Cl) %

Max 0.05

Sulfate ( $SO_4$ ) %

Max 0.5

Arsenic (As) %

Max 0.0005

Lead (Pb) %

Max 0.002

Calcium (Ca) %

Max 0.5

Iron (Fe) %

Max 0.02

Residue on ignition %

70 - 74

## Yeast extract powder

For Microbiology

**Product code:** DM1110500

**500 gr**

Description

light yellow or lighth to buff brown

Coloured free flowing spay dried powder havinga a characteristic sweet odour solubility

2% solution in water is clear and complete

Autoclave test

passes test

pH of (2% solution in water)

5.0 - 7.0

Total nitrogen (by kjeldals method) %

Min 9.5

Protein content %

Min 59.4

## Zinc chloride

Analytical Reagent  
 $\text{ZnCl}_2$  MW =136.28

**Product code :** 326030500

**C.A.S. :** 7646-85-7

**500 gr**

**EINECS :** 231-592-0

|                                   |             |
|-----------------------------------|-------------|
| Assay %                           | Min 98      |
| Insoluble matter %                | Max 0.005   |
| Oxide chloride (as $\text{ZnO}$ ) | Passes test |
| Sulfate ( $\text{SO}_4$ ) %       | Max 0.01    |
| Nitrate ( $\text{NO}_3$ ) %       | Max 0.003   |
| Lead (Pb) %                       | Max 0.005   |
| Iron (Fe) %                       | Max 0.001   |
| Magnesium (Mg) %                  | Max 0.01    |
| Calcium (Ca) %                    | Max 0.06    |
| Sodium (Na) %                     | Max 0.05    |
| Potassium (K) %                   | Max 0.02    |
| Ammonium ( $\text{NH}_4$ ) %      | Max 0.005   |



H314-H400-H410-H302  
P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

## Zinc metal granular

Analytical Reagent  
 $\text{Zn}$  MW =65.37

**Product code :** 326000500

**C.A.S. :** 7440-66-6

**500 gr**

**EINECS :** 231-175-3

|                            |             |
|----------------------------|-------------|
| Assay (by complexometry) % | Min 99.9    |
| Lead (Pb) %                | Max 0.005   |
| Tin (Sn) %                 | Max 0.005   |
| Copper (Cu) %              | Max 0.001   |
| Iron (Fe) %                | Max 0.02    |
| Cadmium (Cd) %             | Max 0.0005  |
| Arsenic (As) %             | Max 0.00001 |

## Zinc nitrate hexahydrate

Analytical Reagent  
 $\text{N}_2\text{O}_6\text{Zn} \cdot 6\text{H}_2\text{O}$  MW =297.48

**Product code :** 326140500

**C.A.S. :** 10196-18-6

**500 ml**

**EINECS :** 231-943-8

|                             |            |
|-----------------------------|------------|
| Assay %                     | Min 98     |
| Water insoluble matter %    | Max 0.005  |
| Chloride (Cl) %             | Max 0.001  |
| Sulfate ( $\text{SO}_4$ ) % | Max 0.005  |
| Cadmium (Cd) %              | Max 0.0005 |
| Calcium (Ca) %              | Max 0.001  |
| Copper (Cu) %               | Max 0.0005 |
| Lead (Pb) %                 | Max 0.001  |
| Magnesium (Mg) %            | Max 0.001  |
| Nickel (Ni) %               | Max 0.0005 |
| Potassium (K) %             | Max 0.001  |
| Sodium (Na) %               | Max 0.001  |
| Iron (Fe) %                 | Max 0.0005 |



H272-H302-H315-H319-H335  
P221-P210-P220-P305-P351-P338-P405-P501A

## Zincon

Analytical Reagent  
 $\text{C}_{20}\text{H}_{15}\text{N}_4\text{NaO}_5\text{S} \cdot \text{H}_2\text{O}$  MW =480.43

**Product code :** 326310001

**C.A.S. :** 62625-22-3

**1 gr**

**EINECS :** 263-651-1

|                                                 |              |
|-------------------------------------------------|--------------|
| Absorption maxima in $\text{NaOH}$ 0.001 mol/L  | 490 - 495 nm |
| Absorptivity, 1cm, $\text{cm}^2\text{mol}^{-1}$ | Min 375      |
| Loss on drying at 135°C %                       | Max 10       |
| Suitability as complexometric indicator         | Passes test  |



H315-H319-H335  
P261-P280-P305-P351-P338-P304-P340-P405-P501A

## Zirconium (IV) oxide

Laboratory Reagent  
 $\text{ZrO}_2$  MW =123.22

**Product code :** 326240500

**C.A.S. :** 1314-23-4

**500 gr**

**EINECS :** 215-227-2

|                                    |           |
|------------------------------------|-----------|
| Assay %                            | Min 97.0  |
| Silicate ( $\text{SiO}_2$ ) %      | Max 0.25  |
| Titanium ( $\text{TiO}_2$ ) %      | Max 0.16  |
| Iron ( $\text{Fe}_2\text{O}_3$ ) % | Max 0.07  |
| Loss on ignition at 1000°C %       | 2.0 - 3.5 |



H319 H335 H315  
P280-P302-P352-P304-P340-P305-P351-P338-P309-P311

## Zirconyl nitrate

Laboratory Reagent  
 $\text{ZrO}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}$  MW =231.23

**Product code :** 326180100

**C.A.S. :** 14985-18-3

**100 gr**

**EINECS :** 237-529-3

|                                 |          |
|---------------------------------|----------|
| Assay (Gravimetric) %           | Min 99.5 |
| $\text{ZrO}_2 + \text{HfO}_2$ % | Min 35.0 |



H272-H315-H319  
P221-P210-P220-P280-P305-P351-P338-P501A



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## **Volumetric Solutions Traceable to NIST**

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**Acetic Acid 0.1 M (0.1N)** Standardized solution  
traceable to NIST  
 $C_2H_4O_2$  MW =60.04

**Product code:** BVS01001  
**C.A.S. :** 64-19-7 **1 L**  
**EINECS :** 200-580-7

**Acetic Acid 1 M (1N)** Standardized solution  
traceable to NIST  
 $C_2H_4O_2$  MW =60.04

**Product code:** BVS01010  
**C.A.S. :** 64-19-7 **1 L**  
**EINECS :** 200-580-7

**Ammonium thiocyanate 0.1 M (0.1N)** Standardized solution  
traceable to NIST  
 $NH_4SCN$  MW =76.12

**Product code:** BVS02001  
**C.A.S. :** 1762-95-4 **1 L**  
**EINECS :** 217-175-6

  
H302-H312-H332-H412-EUH032  
P261-P280-P302-P352-P304-P322-P501

**Ammonium thiocyanate 1 M (1N)** Standardized solution  
traceable to NIST  
 $NH_4SCN$  MW =76.12

**Product code:** BVS02010  
**C.A.S. :** 1762-95-4 **1 L**  
**EINECS :** 217-175-6

  
H302-H312-H332-H412-EUH032  
P261-P280-P302-P352-P304-P322-P501

**EDTA di-Sodium Salt 0.1 M (0.2N)** Standardized solution  
traceable to NIST  
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$  MW =372.24

**Product code:** BVS03002  
**C.A.S. :** 6381-92-6 **1 L**  
**EINECS :** 205-358-3

**EDTA di-Sodium Salt 0.5 M (1N)** Standardized solution  
traceable to NIST  
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$  MW =372.24

**Product code:** BVS03010  
**C.A.S. :** 6381-92-6 **1 L**  
**EINECS :** 205-358-3

**Hydrochloric acid 0.1 M (0.1N)** Standardized solution  
traceable to NIST  
HCl MW =36.46

**Product code:** BVS04001  
**C.A.S. :** 7647-01-0 **1 L**  
**EINECS :** 231-595-7

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous)  
is traceable to NIST Standard Reference Material  
Tris(hydroxymethyl)amino methane, number 723e.



H314-H335  
P260-P301-P330-P331-P361-P353-P305-P351-P338-P405-P501a

**Hydrochloric acid 1 M (1N)** Standardized solution  
traceable to NIST  
HCl MW =36.46

**Product code:** BVS04010  
**C.A.S. :** 7647-01-0 **1 L**  
**EINECS :** 231-595-7

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous)  
is traceable to NIST Standard Reference Material  
Tris(hydroxymethyl)amino methane, number 723e.



H314-H335  
P260-P301-P330-P331-P361-P353-P305-P351-P338-P405-P501a

**Hydrochloric acid 2 M (2N)** Standardized solution  
traceable to NIST  
HCl MW =36.46

**Product code:** BVS04020  
**C.A.S. :** 7647-01-0 **1 L**  
**EINECS :** 231-595-7

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous)  
is traceable to NIST Standard Reference Material  
Tris(hydroxymethyl)amino methane, number 723e.



H314-H335  
P260-P301-P330-P331-P361-P353-P305-P351-P338-P405-P501a



**Iodine 0.5 M (1N)**

Standardized solution  
traceable to NIST  
 $I_2$  MW =253.81

**Product code:** BVS05010

**C.A.S. :** 7553-56-2

1 L

**EINECS :** 231-442-4

Tolerance

+/- 0.0005M

Appearance

Brown solution

The standardisation material (sodium thiosulphate) is a secondary reference material traceable to NIST Standard Reference Material arsenic trioxide, number 83d.



H311-H314-H318-H400-H332

P260-P303-P361-P353-P305-P351-P338-P361-P405-P501

**Nitric Acid 1 M (1N)**

Standardized solution  
traceable to NIST  
 $HNO_3$  MW =63.01

**Product code:** BVS05110

**C.A.S. :** 7697-37-2

1 L

**EINECS :** 231-714-2

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris(hydroxymethyl)amino methane, number 723e.



H314

P280 P305-P351-P338-P310

**Oxalic Acid 0.5 M (1N)**

Standardized solution  
traceable to NIST  
 $C_2H_2O_4 \cdot 2H_2O$  MW =126.07

**Product code:** BVS06010

**C.A.S. :** 6153-56-6

1 L

**EINECS :** 205-634-3

Tolerance

+/- 0.0005M

Appearance

Clear solution

The standardisation material (sodium hydroxide) is a secondary reference material traceable to NIST Standard Reference Material potassium hydrogen phthalate, number 841.



H314-H302-H312

P260-P303-P361-P353-P305-P351-P338-P301-P330-P331-P405-P501A

**Perchloric Acid 0.1 M (0.1N)**

Standardized solution  
traceable to NIST  
 $HClO_4$  MW =100.46

**Product code:** BVS06101

**C.A.S. :** 7601-90-3

1 L

**EINECS :** 231-512-4



H226 H314

P280 P305-P351-P338-P310

**Perchloric Acid 1 M (1N)**

Standardized solution  
traceable to NIST  
 $HClO_4$  MW =100.46

**Product code:** BVS06110

**C.A.S. :** 7601-90-3

1 L

**EINECS :** 231-512-4



H226-H314

P280-P305-P351-P338-P310

**Potassium Chloride 1 M (1N)**

Standardized solution  
traceable to NIST  
KCl MW =74.55

**Product code:** BVS07010

**C.A.S. :** 7447-40-7

1 L

**EINECS :** 231-211-8

**Potassium Chromate 0.0333M (0.1N )**

Standardized solution  
traceable to NIST  
 $K_2CrO_4$  MW=194.20

**Product code:** BVS08001

**C.A.S. :** 7789-00-6

1 L

**EINECS :** 232-140-5



H340-H350-H400-H410-H315-H319-H317-H335

P261-P280-P281-P305-P351-P338-P405-P501A

**Potassium Dichromate 0.0167M (0.1N)**

Standardized solution  
traceable to NIST  
 $K_2Cr_2O_7$  MW =294.18

**Product code:** BVS08101

**C.A.S. :** 7778-50-9

1 L

**EINECS :** 231-906-6



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411

P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

**Potassium dichromate 0.167M (1N)**

Standardized solution  
traceable to NIST  
 $K_2Cr_2O_7$  MW =294.18

**Product code:** BVS08110

**C.A.S. :** 7778-50-9

1 L

**EINECS :** 231-906-6



H225-H301-H311-H331-H315-H317-H335-H350-H318-H411

P210-P301-P310-P303-P361-P353-P305-P351-P338-P361-P405-P501A

Potassium Hydroxide 0.1 M (0.1N) Standardized solution  
traceable to NIST  
KOH MW =56.11

**Product code:** BVS09001

**C.A.S. :** 1310-58-3

1 L

**EINECS :** 215-181-3



H314-H302

P260-P301-P330-P331-P303+P361-P353-P305-P351-P338-P405-P501

Potassium Hydroxide 1 M (1N) Standardized solution  
traceable to NIST  
KOH MW =56.11

**Product code:** BVS09010

**C.A.S. :** 1310-58-3

1 L

**EINECS :** 215-181-3



H314-H302

P260-P301-P330-P331-P303+P361-P353-P305-P351-P338-P405-P501

Potassium Iodide 0.1 M (0.1N) Standardized solution  
traceable to NIST  
KI MW =166.00

**Product code:** BVS10001

**C.A.S. :** 7681-11-0

1 L

**EINECS :** 231-659-4

Potassium Iodide 1 M (1N) Standardized solution  
traceable to NIST  
KI MW =166.00

**Product code:** BVS10010

**C.A.S. :** 7681-11-0

1 L

**EINECS :** 231-659-4

Potassium Permanganate 0.02 M (0.1N) Standardized solution  
traceable to NIST  
KMnO<sub>4</sub> MW =158.03

**Product code:** BVS11001

**C.A.S. :** 7722-64-7

1 L

**EINECS :** 231-760-3

Tolerance +/- 0.0005M  
Appearance Purple solution  
The standardisation material (sodium thiosulphate) is a secondary  
reference material traceable to NIST Standard Reference Material  
arsenic trioxide, number 83d.



H400-H410-H302

P221-P210-P220-P280-P301-P312-P501a

Potassium Permanganate 0.2 M (1N) Standardized solution  
traceable to NIST  
KMnO<sub>4</sub> MW =158.03

**Product code:** BVS11010

**C.A.S. :** 7722-64-7

1 L

**EINECS :** 231-760-3

Tolerance +/- 0.0005M  
Appearance Purple solution  
The standardisation material (sodium thiosulphate) is a secondary  
reference material traceable to NIST Standard Reference Material  
arsenic trioxide, number 83d.



H400-H410-H302

P221-P210-P220-P280-P301-P312-P501a

Potassium Thiocyanate 0.1 M (0.1N) Standardized solution  
traceable to NIST  
KSCN MW =97.18

**Product code:** BVS12001

**C.A.S. :** 333-20-0

1 L

**EINECS :** 206-370-1



H302-H312-H332-H412

P261-P280-P304-P340-P301-P312-P312-P501A

Silver Nitrate 0.01 M (0.01N) Standardized solution  
traceable to NIST  
AgNO<sub>3</sub> MW =169.88

**Product code:** BVS130001

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

Silver Nitrate 0.1 M (0.1N) Standardized solution  
traceable to NIST  
AgNO<sub>3</sub> MW =169.88

**Product code:** BVS13001

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

Silver Nitrate 0.05 M (0.05N) Standardized solution  
traceable to NIST  
AgNO<sub>3</sub> MW =169.88

**Product code:** BVS130005

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410

P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

**Silver Nitrate 0.5 M (0.5N)**

Standardized solution  
traceable to NIST  
 $\text{AgNO}_3$  MW =169.88

**Product code:** BVS13005

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410  
P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

**Sodium Hydroxide 0.1 M (0.1N)**

Standardized solution  
traceable to NIST  
NaOH MW =40

**Product code:** BVS16001

**C.A.S. :** 1310-73-2

1 L

**EINECS :** 215-185-5

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (potassiumhydrogen phthalate) is traceable to NIST Reference Standard Material potassiumhydrogen phthalate, number 841.



H314  
P280 P305-P351-P338-P310

**Silver Nitrate 1 M (1N)**

Standardized solution  
traceable to NIST  
 $\text{AgNO}_3$  MW =169.88

**Product code:** BVS13010

**C.A.S. :** 7761-88-8

1 L

**EINECS :** 231-853-9



H272-H314-H290-H400-H410  
P221-P210-P303-P361-P353-P305-P351-P338-P405-P501A

**Sodium Hydroxide 1 M (1N)**

Standardized solution  
traceable to NIST  
NaOH MW =40

**Product code:** BVS16010

**C.A.S. :** 1310-73-2

1 L

**EINECS :** 215-185-5

Tolerance +/- 0.005M  
Appearance Clear solution  
The standardisation material (Hydrochloric acid) is a secondary reference material traceable to NIST Reference Standard Material Tris(hydroxymethyl)amino methane, number 723e.



H314  
P280 P305-P351-P338-P310

**Sodium carbonate 0.5 M (1N)**

Standardized solution  
traceable to NIST  
 $\text{Na}_2\text{CO}_3$  MW =105.99

**Product code:** BVS1401

**C.A.S. :** 497-19-8

1 L

**EINECS :** 207-838-8

**Sodium Thiosulfate 0.1 M (0.1N)**

Standardized solution  
traceable to NIST  
 $\text{Na}_2\text{O}_3\text{S}_2 \cdot 5\text{H}_2\text{O}$  MW =248.17

**Product code:** BVS17001

**C.A.S. :** 10102-17-7

1 L

**EINECS :** 231-867-5

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (potassium iodate) is traceable to NIST Standard Reference Material arsenic trioxide, number 83d

**Sodium Chloride 0.1 M (0.1N)**

Standardized solution  
traceable to NIST  
NaCl MW =58.44

**Product code:** BVS15001

**C.A.S. :** 7647-14-5

1 L

**EINECS :** 231-598-3

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (sodium chloride) is traceable to NIST Reference Standard Material potassium chloride, number 999.

**Sodium Chloride 1 M (1N)**

Standardized solution  
traceable to NIST  
NaCl MW =58.44

**Product code:** BVS15010

**C.A.S. :** 7647-14-5

1 L

**EINECS :** 231-598-3

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (sodium chloride) is traceable to NIST Reference Standard Material potassium chloride, number 999.

**Sodium Thiosulfate 1 M (1N)**

Standardized solution  
traceable to NIST  
 $\text{Na}_2\text{O}_3\text{S}_2 \cdot 5\text{H}_2\text{O}$  MW =248.17

**Product code:** BVS17010

**C.A.S. :** 10102-17-7

1 L

**EINECS :** 231-867-5

Tolerance +/- 0.0005M  
Appearance Clear solution  
The standardisation material (potassium iodate) is traceable to NIST Standard Reference Material arsenic trioxide, number 83d

**Sulfuric Acid 0.05 M (0.1N)**

Standardized solution  
traceable to NIST  
 $\text{H}_2\text{SO}_4$  MW =98.08

**Product code:** BVS18001

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance  $\pm 0.0005\text{M}$   
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314  
P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

**Sulfuric Acid 0.5 M (1N)**

Standardized solution  
traceable to NIST  
 $\text{H}_2\text{SO}_4$  MW =98.08

**Product code:** BVS18010

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance  $\pm 0.0005\text{M}$   
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314  
P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

**Sulfuric Acid 0.1 M (0.2N)**

Standardized solution  
traceable to NIST  
 $\text{H}_2\text{SO}_4$  MW =98.08

**Product code:** BVS18002

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance  $\pm 0.0005\text{M}$   
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314  
P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

**Sulfuric Acid 1 M (2N)**

Standardized solution  
traceable to NIST  
 $\text{H}_2\text{SO}_4$  MW =98.08

**Product code:** BVS18020

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance  $\pm 0.0005\text{M}$   
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314  
P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501

**Sulfuric Acid 0.25 M (0.5N)**

Standardized solution  
traceable to NIST  
 $\text{H}_2\text{SO}_4$  MW =98.08

**Product code:** BVS18005

**C.A.S. :** 7664-93-9

**1 L**

**EINECS :** 231-639-5

Tolerance  $\pm 0.0005\text{M}$   
Appearance Clear solution  
The standardisation material (sodium carbonate, anhydrous) is traceable to NIST Standard Reference Material Tris (hydroxymethyl) amino methane, number 723e.



H314  
P260-P301-P330-P331-P-303-P361-P353-P305-P351-P338-P405-P501



Finding  
US on the web

[www.biochemopharma.fr](http://www.biochemopharma.fr)

## **Deshydrated Media & Bases for Microbiology**

***[Http://www.biochemopharma.fr](http://www.biochemopharma.fr)***

## Agar powder bacteriological For Microbiology

**Product code:** DM1000500 **500 gr**

|                                                             |                                                        |
|-------------------------------------------------------------|--------------------------------------------------------|
| Description                                                 | white to yellowish white or pale yellow powder         |
| Solubility                                                  | 1.5% insoluble in cold water, soluble in boiling water |
| Clarity of soln. (1.5% solution in water After autoclaving) | passes test                                            |
| Loss on drying (105°C) %                                    | Max 20.0                                               |
| Residue on ignition %                                       | Max 5.0                                                |
| Gelling temp                                                | Below 40°C                                             |
| Gel formation (1.5% aq solution)                            | passes test                                            |
| Foreign strach                                              | passes test                                            |
| Total bacerial count (cuf/g)                                | less than 1000                                         |

## Agar powder extra pure For Microbiology

**Product code:** DM1100500 **500 gr**

|                                                                |                                                      |
|----------------------------------------------------------------|------------------------------------------------------|
| Description                                                    | withe to yellowish wither or pale yellow powder      |
| Solubility                                                     | insoluble in cold water and soluble in boiling water |
| Clarity of solution (1.5% solution in water after autoclaving) | passes test                                          |
| Loss on drying (105°) %                                        | Max 20.0                                             |
| Residue on ignition %                                          | Max 5.0                                              |
| Gelling temperature                                            | Not more than 38°C                                   |

## Agarose high EEO For Microbiology

**Product code:** DM0500025 **25 gr**

**C.A.S. :** 9012-36-6

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Description                 | a white free flowing powder             |
| Solubility                  | 1.5% hot aq. Soln is clear & colourless |
| Gel strenght (1.5% gel)     | Min 800 g\cm <sub>2</sub>               |
| Loss on drying %            | Max 10.0                                |
| Sulafe (SO <sub>4</sub> ) % | Max 0.5                                 |
| Sulfated ash %              | Max 1.0                                 |
| EEO (Mr)                    | 0.25 - 0.30                             |
| Gelling tem (1.5% gel)      | 3.6±1.5 °C                              |
| A 1.5 aq ~ 50°C 430 nm      | 0.1                                     |
| A 1.5 aq ~ 525 nm           | 0.05                                    |
| A 1.5 aq ~ 625 nm           | 0.03                                    |

## Agarose low EEO For Microbiology

**Product code:** DM0530025 **25 gr**

**C.A.S. :** 9012-36-6

|                            |                                         |
|----------------------------|-----------------------------------------|
| Description                | a white free flowing powder             |
| Solubility                 | 1.5% hot aq. Soln is clear & colourless |
| Gel strenght (1.5% gel)    | Min 800 g\cm <sub>2</sub>               |
| Loss on drying %           | Max 10.0                                |
| Sulfated ash %             | Max 0.75                                |
| Sulfate (SO <sub>4</sub> ) | Max 0.2                                 |
| EEO (-Mr)                  | 0.10 - 0.15                             |
| Gelling tem (1.5% gel)     | 38± 40 °C                               |
| A 1.5 aq ~ 50°C 430 nm     | 0.1                                     |
| A 1.5 aq ~ 430 nm          | 0.05                                    |
| A 1.5 aq ~ 430 nm          | 0.03                                    |

## Agarose medium EEO type (I) For Microbiology

**Product code:** DM0510025 **25 gr**

**C.A.S. :** 9012-36-6

|                            |                                         |
|----------------------------|-----------------------------------------|
| Description                | a white free flowing powder             |
| Solubility                 | 1.5% hot aq. Soln is clear & colourless |
| Gel strenght (1.5% gel)    | Min 1500mg\cm <sup>2</sup>              |
| Loss on drying %           | Max 10.0                                |
| Sulfated ash %             | Max 1.0                                 |
| Sulfate (SO <sub>4</sub> ) | Max 0.2                                 |
| EEO (Mr)                   | 0.15 - 0.20                             |
| Gelling temperature        | 36 °C                                   |
| A 1.5 aq ~ 50°C 430 nm     | 0.01                                    |
| A 1.5 aq ~ 525 nm          | 0.05                                    |
| A 1.5 aq ~ 655 nm          | 0.03                                    |

## Anaerobic agar (Brewer) For Microbiology

**Product code:** DM2400500 **500 gr**

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Proteose peptone                | 10.000 G/L                                                 |
| Casein enzymic hydrolysate      | 5.000 G/L                                                  |
| Yeast extract                   | 5.000 G/L                                                  |
| Dextrose                        | 10.000 G/L                                                 |
| Sodium chloride                 | 5.000 G/L                                                  |
| Sodium thioglycollate           | 2.000 G/L                                                  |
| Sodium formaldehyde sulfoxylate | 1.000 G/L                                                  |
| Resazurin                       | 0.002 G/L                                                  |
| Agar                            | 15.000 G/L                                                 |
| Final pH (at 25°C)              | 7.2 ± 0.2 G/L                                              |
| pH range                        | 7.00 - 7.40                                                |
| Reaction                        | reaction of 3.5% w/v aqueous solution at 25°C pH 7.2± 7.40 |

## Antibiotic assay medium N° 1 For Microbiology (seed agar)

**Product code:** DM2010500 **500 gr**

|                                         |            |
|-----------------------------------------|------------|
| Peptic digest of animal tissue Peptone) | 6000G/L    |
| Casein enzymic hydrolysate              | 4.000G/L   |
| Yeast extract                           | 3.000 G/L  |
| Beef extract                            | 1500 G/L   |
| Dextrose                                | 1.000 G/L  |
| Agar                                    | 15.000 G/L |
| Final pH (at 25°C)                      | 6.6 ± 0.2  |

## Antibiotic assay medium N° 2 For Microbiology (base agar)

**Product code:** DM2020500 **500 gr**

|                                         |           |
|-----------------------------------------|-----------|
| Peptic digest of animal tissue(Peptone) | 6.000 G/L |
| Beef extract                            | 1.500 G/L |
| Yeast extract                           | 3.000 G/L |
| Agar                                    | 15.000    |
| Final pH (at 25°C)                      | 6.6 ± 0.2 |

## Antibiotic assay medium N° 3 For Microbiology

**Product code:** DM2030500 **500 gr**

|                                          |           |
|------------------------------------------|-----------|
| Peptic digest of animal tissue (Peptone) | 5.00 G/L  |
| Beef extract                             | 1.500 G/L |
| Yeast extract                            | 1.500 G/L |
| Dextrose                                 | 1.000 G/L |
| Sodium chloride                          | 3.500 G/L |
| Dipotassium phosphate                    | 3.680 G/L |
| Potassium dihydrogen phosphate           | 1.320 G/L |
| Final pH (at 25°C)                       | 7.0 ± 0.2 |

## Antibiotic assay medium N° 4 For Microbiology

(yeast beef agar)

|                                          |                                                            |
|------------------------------------------|------------------------------------------------------------|
| <b>Product code:</b> DM2040500           | <b>500 gr</b>                                              |
| Peptic digest of animal tissue (peptone) | 6.000 G/L                                                  |
| Beef extract                             | 1.500 G/L                                                  |
| Yeast extract                            | 3.000 G/L                                                  |
| Dextrose                                 | 1.000 G/L                                                  |
| Agar                                     | 15.000 G/L                                                 |
| pH range                                 | 6.40 - 6.80                                                |
| Reaction                                 | reaction of 2.65% w/v aqueous solution at 25°C pH: 6.6±0.2 |

## Antibiotic assay medium N° 5 For Microbiology

|                                          |               |
|------------------------------------------|---------------|
| <b>Product code:</b> DM2050500           | <b>500 gr</b> |
| Peptic digest of animal tissue (Peptone) | 6.00 G/L      |
| Beef extract                             | 1.500 G/L     |
| Yeast extract                            | 3.00 G/L      |
| Agar                                     | 15.00 G/L     |
| Final pH (at 25°C)                       | 7.9 ± 0.2     |

## Antibiotic assay medium N° 6 For Microbiology

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| <b>Product code:</b> DM2060500 | <b>500 gr</b>                                              |
| Casein enzymic hydrolysate     | 17.000 G/L                                                 |
| Papaic digest of soyabean meal | 3.000 G/L                                                  |
| Sodium chloride                | 5.000 G/L                                                  |
| Dextrose                       | 2.500 G/L                                                  |
| Dipotassium phosphate          | 2.500 G/L                                                  |
| Manganese sulfate              | 0.030 G/L                                                  |
| Final pH (at 25°C)             | 7.0 ± 0.2                                                  |
| pH range                       | 6.80 - 7.20                                                |
| Reaction                       | of 3.0% w/v aqueous solution solution at 25°C pH 7.0 ± 0.2 |

## Antibiotic assay medium N° 7 For Microbiology

|                                |               |
|--------------------------------|---------------|
| <b>Product code:</b> DM2070500 | <b>500 gr</b> |
| Beef extract                   | 1.500 G/L     |
| Yeast extract                  | 3.000 G/L     |
| Pancreatic digest of gelatin   | 6.000 G/L     |
| Agar                           | 15.000 G/L    |
| Final pH (at 25°C)             | 7.0 ± 0.2 G/L |

## Antibiotic assay medium N° 8 For Microbiology

|                                          |               |
|------------------------------------------|---------------|
| <b>Product code:</b> DM2080500           | <b>500 gr</b> |
| Peptic digest of animal tissue (Peptone) | 6.00 G/L      |
| Yeast extract                            | 3.00 G/L      |
| Beef extract                             | 1.50 G/L      |
| Agar                                     | 15.00 G/L     |
| Final pH (at 25°C)                       | 5.9 ± 0.2     |

## Antibiotic assay medium N° 9 For Microbiology

(polymyxin base agar)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>Product code:</b> DM2090500 | <b>500 gr</b>                                             |
| Casein enzymic hydrolysate     | 17.000 G/L                                                |
| Papaic digest of soyabean meal | 3.000 G/L                                                 |
| Sodium chloride                | 5.000 G/L                                                 |
| Dextrose                       | 2.500 G/L                                                 |
| Dipotassium phosphate          | 2.500 G/L                                                 |
| Agar                           | 20.000 G/L                                                |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                 |
| pH range                       | 7.00 - 7.40                                               |
| Reaction                       | of 5 % w/v aqueous solution solution at 25°C pH 7.2 ± 0.2 |

## Antibiotic assay medium N° 10 For Microbiology

(polymyxin seed agar)

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| <b>Product code:</b> DM2100500 | <b>500 gr</b>                                                                   |
| Casein enzymic hydrolysate     | 17.000 G/L                                                                      |
| Papaic digest of soyabean meal | 3.000 G/L                                                                       |
| Sodium chloride                | 5.000 G/L                                                                       |
| Dextrose                       | 2.500 G/L                                                                       |
| Dipotassium phosphate          | 2.500 G/L                                                                       |
| Agar                           | 12.000 G/L                                                                      |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                                       |
| pH range                       | 7.00 - 7.40                                                                     |
| Reaction                       | of 4.2 % w/v aqueous solution containing 1% polysorbate 80 at 25°C pH 7.2 ± 0.2 |

## Antibiotic assay medium N° 12 For Microbiology

(nystatin assay agar)

|                                          |               |
|------------------------------------------|---------------|
| <b>Product code:</b> DM2120500           | <b>500 gr</b> |
| Peptic digest of animal tissue (Peptone) | 10.000 G/L    |
| Sodium chloride                          | 10.000 G/L    |
| Dextrose                                 | 10.000 G/L    |
| Beef extract                             | 2.500 G/L     |
| Yeast extract                            | 5.000 G/L     |
| Agar                                     | 25.000 G/L    |
| Final pH (at 25°C)                       | 6.1 ± 0.2     |

## Baird parker agar For Microbiology

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| <b>Product code:</b> DM2130500 | <b>500 gr</b>                                              |
| Casein enzymic hydrolysate     | 10.000 G/L                                                 |
| Beef extract                   | 5.000 G/L                                                  |
| Yeast extract                  | 1.000 G/L                                                  |
| Glycine                        | 12.000 G/L                                                 |
| Sodium pyruvate                | 10.000 G/L                                                 |
| Lithium chloride               | 5.000 G/L                                                  |
| Agar                           | 20.000 G/L                                                 |
| Final pH (at 25°C)             | 7.0 ± 0.2                                                  |
| pH range                       | 6.80 - 7.20                                                |
| Reaction                       | reaction of 6.3% w/v aqueous solution at 25°C pH 7.0 ± 0.2 |

## Bile salt For Microbiology

|                                |                              |
|--------------------------------|------------------------------|
| <b>Product code:</b> DM1010500 | <b>500 gr</b>                |
| Description                    | yellowish - brown powder     |
| Solubility                     | soluble in water and alcohol |
| Bile acid %                    | Not less than 65             |
| pH (2% solution)               | 6 - 8                        |
| Sulfated ash %                 | Max 13 - 17                  |
| Loss on drying %               | Max 5                        |

## Bio peptone

For Microbiology

**Product code:** DM1130500 **500 gr**

pH (1% w/v aqueous solution) 25°C 5.5 - 7.2

Typical cultural response after 18 - 48 hours at 35 °C

|            |      |
|------------|------|
| E. Coli    | good |
| Klebsiella | good |
| Proteus    | good |
| S. aureus  | good |

Biochemical test

|                           |      |
|---------------------------|------|
| MR                        | + ve |
| VP                        | ± ve |
| Nitrate reduction         | - ve |
| Carbohydrate fermentation | - ve |

## Blood agar base No.2 w/1,2 % agar For Microbiology

**Product code:** DM2420500 **500 gr**

|                    |            |
|--------------------|------------|
| Protease peptone   | 15.000 G/L |
| Liver extract      | 2.50 G/L   |
| Yeast extract      | 5.000 G/L  |
| Sodium chloride    | 5.000 G/L  |
| Agar               | 12.000 G/L |
| Final pH (at 25°C) | 7.4 ± 0.2  |

## Brilliant green agar w/1,2 % agar For Microbiology

**Product code:** DM2140500 **500 gr**

|                    |            |
|--------------------|------------|
| Protease peptone   | 15.000 G/L |
| Yeast extract      | 3.000 G/L  |
| Lactose            | 10.000 G/L |
| Sucrose            | 10.000 G/L |
| Sodium chloride    | 5.000 G/L  |
| Phenol red         | 0.080 G/L  |
| Brilliant green    | 0.0125 G/L |
| Agar               | 12.000 G/L |
| Final pH (at 25°C) | 6.9 ± 0.2  |

## Casein acid hydrolysate

For Microbiology

**Product code:** DM1150500 **500 gr**

pH (1% w/v aqueous solution) 25°C 6.8 - 7.4

Typical cultural response after 24 - 48 hours at 35 °C

|            |      |
|------------|------|
| E. Coli    | good |
| Klebsiella | good |
| Salmonella | good |

Biochemical test

|                   |      |
|-------------------|------|
| Indole            | + ve |
| H <sub>2</sub> S  | + ve |
| Nitrate reduction | - ve |

## Casein peptone

For Microbiology

**Product code:** Dm1070500 **500 gr**

**C.A.S. :** 73049-73-7

Description light tan, homogenous, free flowing powder  
1% w/v aqueous solution remains clear amber, complete  
after autoclaving at 15 lbs

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Solubility                            | pressure (121°C) for 15 minutes |
| pH of 2% w/v aqueous solution at 25°C | 6.5-7.5                         |
| Total nitrogen %                      | 10                              |
| Amino nitrogen %                      | 4                               |
| Ash %                                 | Max 15.0                        |
| Loss on drying %                      | Max 5.0                         |

## Cetrimide agar base

For Microbiology

**Product code:** DM2450500 **500 gr**

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| Pancreatic digest of gelatin | 20.000 G/L                                                                                     |
| Magnesium chloride           | 1.400 G/L                                                                                      |
| Potassium sulfate            | 10.000 G/L                                                                                     |
| Cetrimide                    | 0.300 G/L                                                                                      |
| Agar                         | 15.000 G/L                                                                                     |
| Final pH (at 25°C)           | 7.2 ± 0.2 G/L                                                                                  |
| pH                           | 7.2 ± 0.2                                                                                      |
| Reaction                     | reaction of 4.67% w/v aqueous solution containing<br>1% glycerol at 25°C (after sterilization) |

## Chapman stone agar

For Microbiology

**Product code:** DM2150500 **500 gr**

|                            |                                                              |
|----------------------------|--------------------------------------------------------------|
| Casein enzymic hydrolysate | 10.000 G/L                                                   |
| Yeast extract              | 2.500 G/L                                                    |
| Gelatin                    | 30.000 G/L                                                   |
| D-Mannitol                 | 10.000 G/L                                                   |
| Sodium chloride            | 55.000 G/L                                                   |
| Ammonium sulfate           | 75.000 G/L                                                   |
| Dipotassium phosphate      | 5.000 G/L                                                    |
| Agar                       | 15.000 G/L                                                   |
| Final pH (at 25°C)         | 7.0 ± 0.2                                                    |
| pH range                   | 6.80 ± 7.20                                                  |
| Reaction                   | reaction of 20.25% w/v aqueous solution at 25°C pH 7.0 ± 0.2 |

## Columbia blood agar base

For Microbiology

**Product code:** DM2470500 **500 gr**

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Peptone, special   | 23.000 G/L                                                 |
| Corn starch        | 1.000 G/L                                                  |
| Sodium chloride    | 5.000 G/L                                                  |
| Agar               | 15.000 G/L                                                 |
| Final pH (at 25°C) | 7.3 ± 0.2 G/L                                              |
| pH range           | 7.10 - 7.50                                                |
| Reaction           | reaction of 4.4% w/v aqueous solution at 25°C pH 7.3 ± 0.2 |

## Crystal violet lactose agar

For Microbiology

**Product code:** DM2160500 **500 gr**

|                    |            |
|--------------------|------------|
| Protease peptone   | 5.00 G/L   |
| Beef extract       | 3.00 G/L   |
| Lactose            | 10.00 G/L  |
| Crystal violet     | 0.0033 G/L |
| Agar               | 15.00 G/L  |
| Final pH (at 25°C) | 6.8 ± 0.2  |

## Dextrose tryptone agar

For Microbiology

**Product code:** DM2510500 **500 gr**

|                            |            |
|----------------------------|------------|
| Casein enzymic hydrolysate | 10.000 G/L |
| Dextrose                   | 5.00 G/L   |
| Bromocresol purple         | 0.040      |
| Agar                       | 15.00 G/L  |
| Final pH (at 25°C)         | 6.7 ± 0.2  |

## EMB agar

For Microbiology

**Product code:** DM2170500

**500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Peptic digest of animal tissue | 10.000 G/L                                                 |
| Dipotassium phosphate          | 2.000 G/L                                                  |
| Lactose                        | 5.000 G/L                                                  |
| Sucrose                        | 5.000 G/L                                                  |
| Eosin-Y                        | 0.400 G/L                                                  |
| Methylene blue                 | 0.065 G/L                                                  |
| Agar                           | 15.500 G/L                                                 |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                  |
| pH range                       | 7.00 - 7.40                                                |
| Reaction                       | reaction of 3.6% w/v aqueous solution at 25°C pH 7.2 ± 0.2 |

## ENDO agar

For Microbiology

**Product code:** DM2180500

**500 gr**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Peptic digest of animal tissue | 10.000 G/L                                                  |
| Lactose                        | 10.000 G/L                                                  |
| Dipotassium phosphate          | 3.500 G/L                                                   |
| Sodium sulfite                 | 2.500 G/L                                                   |
| Basic fuchsin                  | 0.500 G/L                                                   |
| Agar                           | 15.000 G/L                                                  |
| Final pH (at 25°C)             | 7.5 ± 0.2                                                   |
| pH range                       | 7.30 - 7.70                                                 |
| Reaction                       | reaction of 4.15% w/v aqueous solution at 25°C pH 7.5 ± 0.2 |

## Gelatin agar

For Microbiology

**Product code:** DM2190500

**500 gr**

|                                                                                             |                                                            |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Gelatin                                                                                     | 30.000 G/L                                                 |
| Casein enzymic hydrolysate                                                                  | 10.000 G/L                                                 |
| Sodium chloride                                                                             | 10.000 G/L                                                 |
| Agar                                                                                        | 15.000 G/L                                                 |
| Final pH (at 25°C)                                                                          | 7.2 ± 0.2                                                  |
| Reaction                                                                                    | reaction of 6.5% w/v aqueous solution at 25°C pH 7.2 ± 0.2 |
| Prepare the medium per label direction Inoculate and incubate at 35 ± 2°C for 24 - 48 Hours |                                                            |

## Gelatin peptone

For Microbiology

**Product code:** DM1160500

**500 gr**

|                                   |           |
|-----------------------------------|-----------|
| pH (1% w/v aqueous solution) 25°C | 6.7 ± 0.2 |
|-----------------------------------|-----------|

Typical cultural response after 18 - 48 hours at 35 °C

|                                  |              |
|----------------------------------|--------------|
| E. Coli                          | poor to good |
| S. aureus                        | poor to good |
| Indole test (tryptophan content) | - ve         |

## Heart infusion agar

For Microbiology

**Product code:** DM2530500

**500 gr**

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Beef heart, infusion from | 500.000 G/L                                                |
| Tryptose                  | 10.000 G/L                                                 |
| Sodium chloride           | 5.000 G/L                                                  |
| Agar                      | 15.000 G/L                                                 |
| Final pH (at 25°C)        | 7.4 ± 0.2                                                  |
| pH range                  | 7.20 - 7.60                                                |
| Reaction                  | reaction of 4.0% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |

## Indole nitrate medium

(tryptone nitrate medium)

For Microbiology

**Product code:** DM2200500

**500 gr**

|                                                                                             |                                                             |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Casein enzymic hydrolysate                                                                  | 20.000 G/L                                                  |
| Disodium phosphate                                                                          | 2.000 G/L                                                   |
| Dextrose                                                                                    | 1.000 G/L                                                   |
| Potassium nitrate                                                                           | 1.000 G/L                                                   |
| Agar                                                                                        | 1.000 G/L                                                   |
| Final pH (at 25°C)                                                                          | 7.2 ± 0.2                                                   |
| Reaction                                                                                    | reaction of 2.5 % w/v aqueous solution at 25°C pH 7.2 ± 0.2 |
| Prepare the medium per label direction Inoculate and incubate at 35 ± 2°C for 18 - 48 Hours |                                                             |

## Lactobacillus MRS agar (MRS agar)

For Microbiology

**Product code:** DM2270500

**500 gr**

|                       |           |
|-----------------------|-----------|
| Proteose peptone      | 10.00 G/L |
| Beef extract          | 10.00 G/L |
| Yeast extract         | 5.00 G/L  |
| Dextrose              | 20.00 G/L |
| Polysorbate 80        | 1.00 G/L  |
| Ammonium citrate      | 2.00 G/L  |
| Sodium acetate        | 5.00 G/L  |
| Magnesium sulfate     | 0.10 G/L  |
| Manganese sulfate     | 0.05 G/L  |
| Dipotassium phosphate | 2.00 G/L  |
| Agar                  | 12 G/L    |
| Final pH (at 25°C)    | 6.5 ± 0.2 |

## Lactose monohydrate broth

For Microbiology

**Product code:** DM2220500

**500 gr**

|                              |           |
|------------------------------|-----------|
| Pancreatic digest of gelatin | 4.750 G/L |
| Beef extract                 | 3.00 G/L  |
| Lactose monohydrate          | 5.00 G/L  |
| pH after sterilization       | 6.9 ± 0.2 |

## M17 agar base

For Microbiology

**Product code:** DM2230500

**500 gr**

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Peptic diest of animal tissue | 5.000 G/L                                                     |
| Papaic digest of soyaben meal | 5.000 G/L                                                     |
| Yeast extract                 | 2.500 G/L                                                     |
| Beef extract                  | 5.00 G/L                                                      |
| Ascorbic acid                 | 0.500 G/L                                                     |
| Magnesium sulfate             | 0.250 G/L                                                     |
| Lactose                       | 5.000 G/L                                                     |
| Agar                          | 10.000 G/L                                                    |
| Final pH (at 25°C)            | 7.1 ± 0.2 G/L                                                 |
| pH rang                       | 6.90 - 7.30                                                   |
| Reaction                      | reaction of 3.33% w/v aqueous solution at 25°C pH : 7.1 ± 0.2 |

## Mac conkey agar

For Microbiology

**Product code:** DM2240500

**500 gr**

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Peptic digest of animal tissue | 20.000 G/L                                                     |
| Lactose                        | 10.000 G/L                                                     |
| Bile salts                     | 5.000 G/L                                                      |
| Sodium chloride                | 5.000 G/L                                                      |
| Neutral red                    | 0.070 G/L                                                      |
| Agar                           | 15.000 G/L                                                     |
| Final pH (25°C)                | 7.5 ± 0.2 G/L                                                  |
| pH                             | 7.30 - 7.70                                                    |
| Reaction                       | reaction of 5.5 % w/v aqueous solution at 25 °C pH : 7.5 ± 0.2 |

|                                |                  |
|--------------------------------|------------------|
| <b>Malt extract powder</b>     | For Microbiology |
| <b>Product code:</b> DM1180500 | <b>500 gr</b>    |
| PH (10% w/v aqueous solution)  | 6.5 ± 1.0        |
| Protein contents %             | Min 5.0          |
| Carbohydrate content %         | Min 70.00        |
| Loss on drying %               | Max 5.00         |

|                                                                                              |                                                             |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Mannitol salt agar base</b>                                                               | For Microbiology                                            |
| <b>Product code:</b> DM2250500                                                               | <b>500 gr</b>                                               |
| Proteose peptone                                                                             | 10.000 G/L                                                  |
| Beef extract                                                                                 | 1.000 G/L                                                   |
| Sodium chloride                                                                              | 75.000 G/L                                                  |
| D-Mannitol                                                                                   | 10.000 G/L                                                  |
| Phenol red                                                                                   | 0.025 G/L                                                   |
| Agar                                                                                         | 15.000 G/L                                                  |
| Final pH (at 25°C)                                                                           | 7.4 ± 0.2                                                   |
| Reaction                                                                                     | reaction of 11.1% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |
| Prepare the medium per label direction. Inoculate and incubate at 35 ± 2°C for 18 - 48 hours |                                                             |

|                                        |                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Meat extract powder</b>             | For Microbiology                                                                                                  |
| <b>Product code:</b> DM1040500         | <b>500 gr</b>                                                                                                     |
| Description                            | light yellow to brownish yellow homogeneous free flowing powder having Characteristic odour but not putrescent    |
| Solubility                             | 1% w/v aqueous solution remains clear without haziness after autoclaving at 15lbs pressure (121°C) for 15 minutes |
| pH of 1% w/v aqueous solution at 25°C  | pH 6.4 ± 0.5                                                                                                      |
| Assay (total nitrogen) %               | Min 11.50                                                                                                         |
| Amino nitrogen %                       | 3.50                                                                                                              |
| Loss on drying %                       | Max 5.00                                                                                                          |
| Residue on ignition %                  | Max 20.00                                                                                                         |
| Sodium chloride %                      | Max 5.00                                                                                                          |
| Total aerobic microbial count (cfu/gm) | 250.00                                                                                                            |
| Total yeast and mold count (cfu/gm)    | 100.00                                                                                                            |

|                                |                  |
|--------------------------------|------------------|
| <b>Meat liver agar</b>         | For Microbiology |
| <b>Product code:</b> DM2260500 | <b>500 gr</b>    |
| Meat liver base                | 20.00 G/L        |
| Dextrose                       | 0.750 G/L        |
| Starch                         | 0.750 G/L        |
| Sodium sulfite                 | 1.200 G/L        |
| Ferric ammonium citrate        | 0.500 G/L        |
| Agar                           | 11.00 G/L        |
| Final pH (at 25°C)             | 7.6 ± 0.2        |

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Meat peptone</b>                    | For Microbiology             |
| <b>Product code:</b> DM1120500         | <b>500 gr</b>                |
| pH (1.0% w/v aqueous solution)         | 6.5 ± 0.5                    |
| Total nitrogen                         | Min 11.5                     |
| à-amino nitrogen %                     | Min 3.0                      |
| Sodium chloride %                      | Max 6.0                      |
| Loss on drying %                       | Max 5.0                      |
| Residue on ignition %                  | Max 15.0                     |
| Total aerobic microbial count (cfu/gm) | Max 250.0                    |
| Total yeast and mold count (cfu/gm)    | Max 100.0                    |
| Microbial limit test                   | Negative in 10 gms of sample |

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| <b>Motility Nitrate Medium</b> | For Microbiology                                            |
| <b>Product code:</b> DM2580500 | <b>500 gr</b>                                               |
| Peptic digest of animal tissue | 5.000 G/L                                                   |
| Beef extract                   | 3.000 G/L                                                   |
| Galactose                      | 5.000 G/L                                                   |
| Potassium nitrate              | 1.000 G/L                                                   |
| Di-Sodium phosphate            | 2.500 G/L                                                   |
| Agar                           | 3.000 G/L                                                   |
| Final pH (at 25°C)             | 7.4 ± 0.2                                                   |
| pH range                       | 7.20 - 7.60                                                 |
| Reaction                       | reaction of 1.95% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |

|                                |                                                |
|--------------------------------|------------------------------------------------|
| <b>Mueller Hinton agar</b>     | For Microbiology                               |
| <b>Product code:</b> DM2280500 | <b>500 gr</b>                                  |
| Beef, infusion from            | 300.000 G/L                                    |
| Casein acid hydrosate          | 17.500 G/L                                     |
| Starch                         | 1.500 G/L                                      |
| Agar                           | 17.000 G/L                                     |
| Final pH (at 25°C)             | 7.3 ± 0.2                                      |
| Reaction                       | reaction of 3.80% w/v aqueous solution at 25°C |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| <b>Nutrient agar</b>           | For Microbiology                              |
| <b>Product code:</b> DM2290500 | <b>500 gr</b>                                 |
| Peptic digest of animal tissue | 5.000 G/L                                     |
| Sodium chloride                | 5.000 G/L                                     |
| Beef extract                   | 1.500 G/L                                     |
| Yeast extract                  | 1.500 G/L                                     |
| Agar                           | 15.000 G/L                                    |
| Final pH (at 25°C)             | 7.4 ± 0.2 G/L                                 |
| PH                             | 7.4 ± 0.2                                     |
| Reaction                       | reaction of 2.8% w/v aqueous solution at 25°C |

|                                                        |                  |
|--------------------------------------------------------|------------------|
| <b>Peptone</b>                                         | For Microbiology |
| <b>Product code:</b> DM1050500                         | <b>500 gr</b>    |
| pH (1% w/v aqueous solution) 25°C                      | 5.5.721          |
| Typical cultural response after 18 - 48 hours at 35 °C |                  |
| E. Coli                                                | good             |
| Klebsiella                                             | good             |
| Proteus                                                | good             |
| S. aureus                                              | good             |
| Biochemical test                                       |                  |
| MR                                                     | + ve             |
| VP                                                     | ± ve             |
| Nitrate reduction                                      | - ve             |
| Carbohydrate fermentation                              | - ve             |

## Peptone M

For Microbiology

**Product code:** DM1170500 **500 gr**

pH (1% w/v aqueous solution) 25°C 7.0 ± 0.5

Typical cultural response after 18 - 48 hours at 35 °C

|             |           |
|-------------|-----------|
| E. Coli     | luxuriant |
| Salmonella  | luxuriant |
| S.aureus    | luxuriant |
| Pseudomonas | luxuriant |

## Peptone Water

For Microbiology

**Product code:** DM2300500 **500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Peptic digest of animal tissue | 10.000 G/L                                                 |
| Sodium chloride                | 5.000 G/L                                                  |
| Final pH (at 25°C)             | 7.2 ± 0.2                                                  |
| pH range                       | 7.00 - 7.40                                                |
| Reaction                       | reaction of 1.5% w/v aqueous solution at 25°C pH 7.2 ± 0.2 |

## Phenol red agar base

For Microbiology

**Product code:** DM2590500 **500 gr**

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Proteose peptone   | 20.000 G/L                                                 |
| Beef extract       | 10.000 G/L                                                 |
| Agar               | 10.000 G/L                                                 |
| Sodium chloride    | 10.000 G/L                                                 |
| Phenol red         | 11.000 G/L                                                 |
| Final pH (at 25°C) | 7.4 ± 0.2                                                  |
| pH range           | 7.20 - 7.60                                                |
| Reaction           | reaction of 3.1% w/v aqueous solution at 25°C pH 7.4 ± 0.2 |

## Phenol red lactose agar

For Microbiology

**Product code:** DM2610500 **500 gr**

|                    |             |
|--------------------|-------------|
| Proteose peptone   | 10.000 G/L  |
| Beef extract       | 1.000 G/L   |
| Agar               | 15.000 G/L  |
| Sodium chloride    | 5.000 G/L   |
| Lactose            | 10.000 G/L  |
| Phenol red         | 0.025 G/L   |
| Final pH (at 25°C) | 7.4 ± 0.2   |
| pH range           | 7.20 - 7.60 |

## Plate count agar PCA

For Microbiology

**Product code:** DM2310500 **500 gr**

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| Casein enzymic hydrolysate | 5.000 G/L                                                   |
| Yeast extract              | 2.500 G/L                                                   |
| Dextrose                   | 1.000 G/L                                                   |
| Agar                       | 15.000 G/L                                                  |
| Final pH (at 25°C)         | 7.0 ± 0.2                                                   |
| pH range                   | 6.80 - 7.20                                                 |
| Reaction                   | reaction of 2.35% w/v aqueous solution at 25°C pH 7.0 ± 0.2 |

## Potato dextrose agar

For Microbiology

**Product code:** DM2620500 **500 gr**

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Potatoes, infusion from | 200.000 G/L                                                 |
| Dextrose                | 20.000 G/L                                                  |
| Agar                    | 15.000 G/L                                                  |
| Final pH (at 25°C)      | 5.6 ± 0.2 G/L                                               |
| pH range                | 6.60 - 7.00                                                 |
| Reaction                | reaction of 2.43% w/v aqueous solution at 25°C pH 6.8 ± 0.2 |

## Sabouraud dextrose agar

For Microbiology

**Product code:** DM2320500 **500 gr**

|                                                                                               |                                                            |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Dextrose                                                                                      | 40.000 G/L                                                 |
| Mycological, peptone                                                                          | 10.000 G/L                                                 |
| Agar                                                                                          | 15.000 G/L                                                 |
| Final pH at (25°C)                                                                            | 5.6 ± 0.2 G/L                                              |
| Reaction                                                                                      | reaction of 6.5% w/v aqueous solution at 25°C pH 5.6 ± 0.2 |
| Prepare the medium per label directions inoculate and incubate at 35 - 37°C for 18 - 48 hours |                                                            |

## Soya peptone

For Microbiology

**Product code:** DM1080500 **500 gr**

|                               |           |
|-------------------------------|-----------|
| pH (1.0 w/v aqueous solution) | 6.4 ~ 0.5 |
| Total nitrogen %              | Min 9.0   |
| à- Amino nitrogen %           | Min 1.8   |
| Sodium chloride %             | Max 5.0   |
| Moisture %                    | 5.0       |
| Ash %                         | 14.0      |

## SS agar (Salmonella shigella agar)

For Microbiology

**Product code:** DM2340500 **500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Beef extract                   | 5.000 G/L                                                  |
| Peptic digest of animal tissue | 5.000 G/L                                                  |
| Lactose                        | 10.000 G/L                                                 |
| Bile salts mixture             | 8.500 G/L                                                  |
| Sodium citrate                 | 10.000 G/L                                                 |
| Sodium thiosulfate             | 8.500 G/L                                                  |
| Ferric citrate                 | 1.000 G/L                                                  |
| Brilliant green                | 0.00033 G/L                                                |
| Neutral red                    | 0.025 G/L                                                  |
| Agar                           | 15.000 G/L                                                 |
| Final pH (at 25°C)             | 7.0 ~ 0.2                                                  |
| PH range                       | 6.80 - 7.20                                                |
| Reaction                       | reaction of 6.3% w/v aqueous solution at 25°C pH 7.0 ~ 0.2 |

## Streptococcus Selection agar

For Microbiology

**Product code:** DM2630500 **500 gr**

|                                |            |
|--------------------------------|------------|
| Casein enzymic hydrolysate     | 15.000 G/L |
| Papaic digest of soyabean meal | 5.000 G/L  |
| Dextrose                       | 5.000 G/L  |
| Sodium chloride                | 4.000 G/L  |
| Sodium citrate                 | 1.000 G/L  |
| Sodium sulfite                 | 0.200 G/L  |
| L-Cystine                      | 0.200 G/L  |
| Sodium azide                   | 0.200 G/L  |
| Crystal violet                 | 0.0002 G/L |
| Agar                           | 15.000 G/L |
| Final pH (at 25°C)             | 7.4 ~ 0.2  |

**TCBS agar**

For Microbiology

**Product code:** DM2640500**500 gr**

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Protease pepetone  | 10.000 G/L                                                 |
| Yeast extract      | 5.000 G/L                                                  |
| Sodium thiosulfate | 10.000 G/L                                                 |
| Sodium citrate     | 10.000 G/L                                                 |
| Oxgall             | 8.000 G/L                                                  |
| Sucrose            | 20.000 G/L                                                 |
| Sodium chloride    | 10.000 G/L                                                 |
| Ferric citrate     | 1.000 G/L                                                  |
| Bromo thymol blue  | 0.040 G/L                                                  |
| Thymol blue        | 0.040 G/L                                                  |
| Agar               | 15.000 G/L                                                 |
| Final pH (at 25°C) | 8.6 ~ 0.2                                                  |
| pH range           | 8.40 - 8.80                                                |
| Reaction           | reaction of 8.9% w/v aqueous solution at 25°C pH 8.6 ~ 0.2 |

**Thioglycollate agar**

For Microbiology

**Product code:** DM2650500**500 gr**

|                            |            |
|----------------------------|------------|
| Casein enzymic hydrolysate | 15.000 G/L |
| Dextrose                   | 5.500 G/L  |
| Sodium chloride            | 2.500 G/L  |
| Yeast extract              | 5.000 G/L  |
| Sodium thioglycollate      | 0.500 G/L  |
| L-Cystine                  | 0.500 G/L  |
| Resazurin sodium salt      | 0.001 G/L  |
| Agar                       | 20.000 G/L |
| Final pH (at 25°C)         | 7.1 ~ 0.2  |

**Tripe sugar iron agar TSI**

For Microbiology

**Product code:** DM2350500**500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Peptic digest of animal tissue | 10.000 G/L                                                 |
| Casein enzymic hydrolysate     | 10.000 G/L                                                 |
| Yeast extract                  | 3.000 G/L                                                  |
| Beef extract                   | 3.000 G/L                                                  |
| Lactose                        | 10.000 G/L                                                 |
| Sucrose                        | 10.000 G/L                                                 |
| Dextrose                       | 1.000 G/L                                                  |
| Sodium chloride                | 5.000 G/L                                                  |
| Ferrous sulfate                | 0.200 G/L                                                  |
| Sodium thiosulfate             | 0.300 G/L                                                  |
| Phenol red                     | 0.024 G/L                                                  |
| Agar                           | 12.000 G/L                                                 |
| Final pH (at 25°C)             | 7.4 ~ 0.2                                                  |
| pH range                       | 7.20 - 7.60                                                |
| Reaction                       | reaction of 6.4% w/v aqueous solution at 25°C pH 7.4 ~ 0.2 |

**Tryptone type-(I)**

For Microbiology

**Product code:** DM1090500**500 gr****Urea agar base (Christensen)**

For Microbiology

**Product code:** DM2660500**500 gr**

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Peptic digest of animal tissue | 1.000 G/L                                                  |
| Dextrose                       | 1.000 G/L                                                  |
| Sodium chloride                | 5.000 G/L                                                  |
| Disodium phosphate             | 1.200 G/L                                                  |
| Monopotassium phosphate        | 0.800 G/L                                                  |
| Phenol red                     | 0.012 G/L                                                  |
| Agar                           | 15.000 G/L                                                 |
| Final pH (at 25°C)             | 6.8 ~ 0.2                                                  |
| PH range                       | 6.60 - 7.00                                                |
| Reaction                       | reaction of 2.4% w/v aqueous solution at 25°C pH 6.8 ~ 0.2 |

**Violet red bile agar**

For Microbiology

**Product code:** DM2670500**500 gr**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Peptic digest of animal tissue | 7.000 G/L                                                   |
| Yeast extract                  | 3.000 G/L                                                   |
| Lactose                        | 10.000 G/L                                                  |
| Bile salts mixture             | 1.500 G/L                                                   |
| Sodium chloride                | 5.000 G/L                                                   |
| Neutral red                    | 0.030 G/L                                                   |
| Crystal violet                 | 0.002 G/L                                                   |
| Agar                           | 15.000 G/L                                                  |
| Final pH (at 25°C)             | 7.4 ~ 0.1                                                   |
| pH range                       | 7.30 - 7.50                                                 |
| Reaction                       | reaction of 4.15% w/v aqueous solution at 25°C pH 7.4 ~ 0.1 |

**Yeast extract powder**

For Microbiology

**Product code:** DM1110500**500 gr**

|                                                                                        |                                            |
|----------------------------------------------------------------------------------------|--------------------------------------------|
| Description                                                                            | light yellow or lighth to buff brown       |
| Coloured free flowing spay dried powder having a characteristic sweet odour solubility | 2% solution in water is clear and complete |
| Autoclave test                                                                         | passes test                                |
| pH of (2% solution in water)                                                           | 5.0 - 7.0                                  |
| Total nitrogen (by kjeldals method) %                                                  | Min 9.5                                    |
| Protein content %                                                                      | Min 59.4                                   |





## ATOMIC WEIGHTS (Alphabetical)

| Element     | Symbol | Atomic number | Atomic weight | Element       | Symbol | Atomic number | Atomic weight |
|-------------|--------|---------------|---------------|---------------|--------|---------------|---------------|
| Actinium    | Ac     | 89            | 227.0277*     | Mercury       | Hg     | 80            | 200.59        |
| Aluminum    | Al     | 13            | 26.981538     | Molybdenum    | Mo     | 42            | 95.94         |
| Americium   | Am     | 95            | 243.0614*     | Neodymium     | Nd     | 60            | 144.24        |
| Antimony    | Sb     | 51            | 121.760       | Neon          | Ne     | 10            | 20.1797       |
| Argon       | Ar     | 18            | 39.948        | Neptunium     | Np     | 93            | 237.0482*     |
| Arsenic     | As     | 33            | 74.92160      | Nickel        | Ni     | 28            | 58.6934       |
| Astatine    | At     | 85            | 209.9871      | Niobium       | Nb     | 41            | 92.90638      |
| Barium      | Ba     | 56            | 137.327       | Nitrogen      | N      | 7             | 14.0067       |
| Berkelium   | Bk     | 97            | 247.0703*     | Nobelium      | No     | 102           | 259.1010*     |
| Beryllium   | Be     | 4             | 9.012182      | Osmium        | Os     | 76            | 190.23        |
| Bismuth     | Bi     | 83            | 208.98038     | Oxygen        | O      | 8             | 15.9994       |
| Bohrium     | Bh     | 107           | 264.12*       | Palladium     | Pd     | 46            | 106.42        |
| Boron       | B      | 5             | 10.811        | Phosphorus    | P      | 15            | 30.973761     |
| Bromine     | Br     | 35            | 79.904        | Platinum      | Pt     | 78            | 195.078       |
| Cadmium     | Cd     | 48            | 112.411       | Plutonium     | Pu     | 94            | 244.0642*     |
| Calcium     | Ca     | 20            | 40.078        | Polonium      | Po     | 84            | 208.9824*     |
| Californium | Cf     | 98            | 251.0796*     | Potassium     | K      | 19            | 39.0983       |
| Carbon      | C      | 6             | 12.0107       | Praseodymium  | Pr     | 59            | 140.90765     |
| Cerium      | Ce     | 58            | 140.116       | Promethium    | Pm     | 61            | 144.9127*     |
| Cesium      | Cs     | 55            | 132.90545     | Protactinium  | Pa     | 91            | 231.03588*    |
| Chlorine    | Cl     | 17            | 35.453        | Radium        | Ra     | 88            | 226.0254*     |
| Chromium    | Cr     | 24            | 51.9961       | Radon         | Rn     | 86            | 222.0176*     |
| Cobalt      | Co     | 27            | 58.933200     | Rhenium       | Re     | 75            | 186.207       |
| Copper      | Cu     | 29            | 63.546        | Rhodium       | Rh     | 45            | 102.90550     |
| Curium      | Cm     | 96            | 247.0704*     | Rubidium      | Rb     | 37            | 85.4678       |
| Dubnium     | Db     | 105           | 262.1141*     | Ruthenium     | Ru     | 44            | 101.07        |
| Dysprosium  | Dy     | 66            | 162.50        | Rutherfordium | Rf     | 104           | 261.1088*     |
| Einsteinium | Es     | 99            | 252.0803*     | Samarium      | Sm     | 62            | 150.36        |
| Erbium      | Er     | 68            | 167.259       | Scandium      | Sc     | 21            | 44.955910     |
| Europium    | Eu     | 63            | 151.964       | Seaborgium    | Sg     | 106           | 266.1219*     |
| Fermium     | Fm     | 100           | 257.0951*     | Selenium      | Se     | 34            | 78.96         |
| Fluorine    | F      | 9             | 18.9984032    | Silicon       | Si     | 14            | 28.0855       |
| Francium    | Fr     | 87            | 223.0197*     | Silver        | Ag     | 47            | 107.8682      |
| Gadolinium  | Gd     | 64            | 157.25        | Sodium        | Na     | 11            | 22.989770     |
| Gallium     | Ga     | 31            | 69.723        | Strontium     | Sr     | 38            | 87.62         |
| Germanium   | Ge     | 32            | 72.64         | Sulfur        | S      | 16            | 32.065        |
| Gold        | Au     | 79            | 196.96655     | Tantalum      | Ta     | 73            | 180.9479      |
| Hafnium     | Hf     | 72            | 178.49        | Technetium    | Tc     | 43            | 97.9072*      |
| Helium      | He     | 2             | 4.002602      | Tellurium     | Te     | 52            | 127.60        |
| Holmium     | Ho     | 67            | 164.93032     | Terbium       | Tb     | 65            | 158.92534     |
| Hydrogen    | H      | 1             | 1.00794       | Thallium      | Tl     | 81            | 204.3833      |
| Indium      | In     | 49            | 114.818       | Thorium       | Th     | 90            | 232.0381*     |
| Iodine      | I      | 53            | 126.90447     | Thulium       | Tm     | 69            | 168.93421     |
| Iridium     | Ir     | 77            | 192.217       | Tin           | Sn     | 50            | 118.710       |
| Iron        | Fe     | 26            | 55.845        | Titanium      | Ti     | 22            | 47.867        |
| Krypton     | Kr     | 36            | 83.80         | Tungsten      | W      | 74            | 183.84        |
| Lanthanum   | La     | 57            | 138.9055      | Ununium       | Uuu    | 111           | 272.1535*     |
| Lawrencium  | Lr     | 103           | 262.1097*     | Uranium       | U      | 92            | 238.0291      |
| Lead        | Pb     | 82            | 207.2         | Vanadium      | V      | 23            | 50.9415       |
| Lithium     | Li     | 3             | 6.941         | Xenon         | Xe     | 54            | 131.293       |
| Lutetium    | Lu     | 71            | 174.967       | Ytterbium     | Yb     | 70            | 173.04        |
| Magnesium   | Mg     | 12            | 24.3050       | Yttrium       | Y      | 39            | 88.90585      |
| Manganese   | Mn     | 25            | 54.938049     | Zinc          | Zn     | 30            | 65.39         |
| Meitnerium  | Mt     | 109           | 268.1388*     | Zirconium     | Zr     | 40            | 91.224        |
| Mendelevium | Md     | 101           | 258.0984*     |               |        |               |               |

\*Relative atomic mass of the isotope of that element of longest known half-life.

## ATOMIC WEIGHTS (Order of Atomic Number)

| Atomic number | Element    | Symbol | Atomic weight | Atomic number | Element       | Symbol | Atomic weight |
|---------------|------------|--------|---------------|---------------|---------------|--------|---------------|
| 1             | Hydrogen   | H      | 1.00794       | 56            | Barium        | Ba     | 137.327       |
| 2             | Helium     | He     | 4.002602      | 57            | Lanthanum     | La     | 138.9055      |
| 3             | Lithium    | Li     | 6.941         | 58            | Cerium        | Ce     | 140.116       |
| 4             | Beryllium  | Be     | 9.012182      | 59            | Praseodymium  | Pr     | 140.90765     |
| 5             | Boron      | B      | 10.811        | 60            | Neodymium     | Nd     | 144.24        |
| 6             | Carbon     | C      | 12.0107       | 61            | Promethium    | Pm     | 144.9127*     |
| 7             | Nitrogen   | N      | 14.0067       | 62            | Samarium      | Sm     | 150.36        |
| 8             | Oxygen     | O      | 15.9994       | 63            | Europium      | Eu     | 151.964       |
| 9             | Fluorine   | F      | 18.9984032    | 64            | Gadolinium    | Gd     | 157.25        |
| 10            | Neon       | Ne     | 20.1797       | 65            | Terbium       | Tb     | 158.92534     |
| 11            | Sodium     | Na     | 22.989770     | 66            | Dysprosium    | Dy     | 162.50        |
| 12            | Magnesium  | Mg     | 24.3050       | 67            | Holmium       | Ho     | 164.93032     |
| 13            | Aluminum   | Al     | 26.981538     | 68            | Erbium        | Er     | 167.259       |
| 14            | Silicon    | Si     | 28.0855       | 69            | Thulium       | Tm     | 168.93421     |
| 15            | Phosphorus | P      | 30.973761     | 70            | Ytterbium     | Yb     | 173.04        |
| 16            | Sulfur     | S      | 32.065        | 71            | Lutetium      | Lu     | 174.967       |
| 17            | Chlorine   | Cl     | 35.453        | 72            | Hafnium       | Hf     | 178.49        |
| 18            | Argon      | Ar     | 39.948        | 73            | Tantalum      | Ta     | 180.9479      |
| 19            | Potassium  | K      | 39.0983       | 74            | Tungsten      | W      | 183.84        |
| 20            | Calcium    | Ca     | 40.078        | 75            | Rhenium       | Re     | 186.207       |
| 21            | Scandium   | Sc     | 44.955910     | 76            | Osmium        | Os     | 190.23        |
| 22            | Titanium   | Ti     | 47.867        | 77            | Iridium       | Ir     | 192.217       |
| 23            | Vanadium   | V      | 50.9415       | 78            | Platinum      | Pt     | 195.078       |
| 24            | Chromium   | Cr     | 51.9961       | 79            | Gold          | Au     | 196.96655     |
| 25            | Manganese  | Mn     | 54.938049     | 80            | Mercury       | Hg     | 200.59        |
| 26            | Iron       | Fe     | 55.845        | 81            | Thallium      | Tl     | 204.3833      |
| 27            | Cobalt     | Co     | 58.933200     | 82            | Lead          | Pb     | 207.2         |
| 28            | Nickel     | Ni     | 58.6934       | 83            | Bismuth       | Bi     | 208.98038     |
| 29            | Copper     | Cu     | 63.546        | 84            | Polonium      | Po     | 208.9824*     |
| 30            | Zinc       | Zn     | 65.39         | 85            | Astatine      | At     | 209.9871      |
| 31            | Gallium    | Ga     | 69.723        | 86            | Radon         | Rn     | 222.0176*     |
| 32            | Germanium  | Ge     | 72.64         | 87            | Francium      | Fr     | 223.0197*     |
| 33            | Arsenic    | As     | 74.92160      | 88            | Radium        | Ra     | 226.0254*     |
| 34            | Selenium   | Se     | 78.96         | 89            | Actinium      | Ac     | 227.0277*     |
| 35            | Bromine    | Br     | 79.904        | 90            | Thorium       | Th     | 232.0381*     |
| 36            | Krypton    | Kr     | 83.80         | 91            | Protactinium  | Pa     | 231.03588*    |
| 37            | Rubidium   | Rb     | 85.4678       | 92            | Uranium       | U      | 238.0291      |
| 38            | Strontium  | Sr     | 87.62         | 93            | Neptunium     | Np     | 237.0482*     |
| 39            | Yttrium    | Y      | 88.90585      | 94            | Plutonium     | Pu     | 244.0642*     |
| 40            | Zirconium  | Zr     | 91.224        | 95            | Americium     | Am     | 243.0614*     |
| 41            | Niobium    | Nb     | 92.90638      | 96            | Curium        | Cm     | 247.0704*     |
| 42            | Molybdenum | Mo     | 95.94         | 97            | Berkelium     | Bk     | 247.0703*     |
| 43            | Technetium | Tc     | 97.9072*      | 98            | Californium   | Cf     | 251.0796*     |
| 44            | Ruthenium  | Ru     | 101.07        | 99            | Einsteinium   | Es     | 252.0803*     |
| 45            | Rhodium    | Rh     | 102.90550     | 100           | Fermium       | Fm     | 257.0951*     |
| 46            | Palladium  | Pd     | 106.42        | 101           | Mendelevium   | Md     | 258.0984*     |
| 47            | Silver     | Ag     | 107.8682      | 102           | Nobelium      | No     | 259.1010*     |
| 48            | Cadmium    | Cd     | 112.411       | 103           | Lawrencium    | Lr     | 262.1097*     |
| 49            | Indium     | In     | 114.818       | 104           | Rutherfordium | Rf     | 261.1088*     |
| 50            | Tin        | Sn     | 118.710       | 105           | Dubnium       | Db     | 262.1141*     |
| 51            | Antimony   | Sb     | 121.760       | 106           | Seaborgium    | Sg     | 266.1219*     |
| 52            | Tellurium  | Te     | 127.60        | 107           | Bohrium       | Bh     | 264.12*       |
| 53            | Iodine     | I      | 126.90447     | 109           | Meitnerium    | Mt     | 268.1388*     |
| 54            | Xenon      | Xe     | 131.293       | 111           | Unununium     | Uuu    | 272.1535*     |
| 55            | Cesium     | Cs     | 132.90545     |               |               |        |               |

\*Relative atomic mass of the isotope of that element of longest known half-life. 136

## EU GHS Hazard Pictograms

| Exemplary Hazard Class/Categories                              | Signal Word     | Hazard Pictogram                                                                      |
|----------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Explosives, divisions 1.1-1.3<br>Explosives, division 1.4      | Danger Warning  |    |
| Flammable liquids, cat. 1, 2<br>Flammable liquids, cat.3       | Danger Warning  |    |
| Oxidising liquids, cat. 1, 2<br>Oxidising liquids, cat. 3      | Danger Warning  |    |
| Gases under pressure,<br>compressed gases                      | Warning         |   |
| Skin corrosion, cat. 1A, 1B, 1C<br>Corrosive to metals, cat. 1 | Danger Warning  |  |
| Acute toxicity, cat. 1, 2, 3                                   | Danger          |  |
| Acute toxicity, cat. 4<br>Skin irritation, cat. 2              | Warning Warning |  |
| Carcinogenicity, cat. 1A, 1B<br>Carcinogenicity, cat. 2        | Danger Warning  |  |
| Hazardous to the aquatic<br>environment, cat. 1                | Warning         |  |
| Hazardous for the ozone layer                                  | Danger          |                                                                                       |

| Code / Hazard statements                           | Hazard class       | Pictogram                                                                            | P-Codes                                                                                      |
|----------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| H200 / Unstable Explosive                          | Explosives         |    | P201, P202, P281, P372, P373, P380, P401, P501                                               |
| H201 / Explosive; mass explosion hazard            | Explosives         |    | P210, P230, P240, P250, P280, P372, P373, P370 + P380, P401, P501                            |
| H202 / Explosive; severe projection hazard         | Explosives         |    | P210, P230, P240, P250, P280, P372, P373, P370 + P380, P401, P501                            |
| H203 / Explosive; fire, blast or projection hazard | Explosives         |    | P210, P230, P240, P250, P280, P372, P373, P370 + P380, P401, P501                            |
| H204 / Fire or projection hazard                   | Explosives         |   | P210, P230, P240, P250, P280, P372, P373, P370 + P380, P401, P501                            |
| H205 / May mass explode in fire                    | Explosives         |  | P210, P230, P240, P250, P280, P372, P373, P370 + P380, P401, P501                            |
| H220 / Extremely flammable gas                     | Flammable gases    |  | P210, P377, P381, P403                                                                       |
| H221 / Flammable gas                               | Flammable gases    |  | P210, P377, P381, P403                                                                       |
| H222 / Extremely flammable aerosol                 | Flammable aerosols |  | P210, P211, P251, P410 + P412                                                                |
| H223 / Flammable aerosol                           | Flammable aerosols |  | P210, P211, P251, P410 + P412                                                                |
| H224 / Extremely flammable liquid and vapour       | Flammable liquids  |  | P210, P233, P240, P241, P242, P243, P280, P303 + P361 + P353, P370 + P378, P403 + P235, P501 |
| H225 / Highly Flammable liquid and vapour          | Flammable liquids  |  | P210, P233, P240, P241, P242, P243, P280, P303 + P361 + P353, P370 + P378, P403 + P235, P501 |
| H226 / Flammable liquid and vapour                 | Flammable liquids  |  | P210, P233, P240, P241, P242, P243, P280, P303 + P361 + P353, P370 + P378, P403 + P235, P501 |

| Code / Hazard statements | Hazard class | Pictogram | P-Codes |
|--------------------------|--------------|-----------|---------|
|--------------------------|--------------|-----------|---------|

|                                                                                      |                                                                           |                                                                                      |                                                                                        |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| H227 / Combustible liquid                                                            | Flammable liquids                                                         |    | P210, P280, P370 + P378, P403 + P235, P501                                             |
| H228 / Flammable solid                                                               | Flammable solids                                                          |    | P210, P240, P241, P280, P370 + P378                                                    |
| H228 / Flammable solid                                                               | Flammable solids                                                          |    | P210, P280, P370 + P378, P403 + P235, P501                                             |
| H240 / Heating may cause an explosion                                                | Self-reactive substances and mixtures; and Organic peroxides              |    | P210, P220, P234, P280, P370 + P378, P370 + P380 + P375, P411, P420, P403 + P235, P501 |
| H241 / Heating may cause a fire or explosion                                         | Self-reactive substances and mixtures; and Organic peroxides              |    | P210, P220, P234, P280, P370 + P378, P370 + P380 + P375, P411, P420, P403 + P235, P501 |
| H242 / Heating may cause a fire                                                      | Self-reactive substances and mixtures; and Organic peroxides              |   | P210, P220, P234, P280, P370 + P378, P411, P420, P403 + P235, P501                     |
| H242 / Heating may cause a fire                                                      | Self-reactive substances and mixtures; and Organic peroxides              |  | P210, P220, P234, P280, P370 + P378, P411, P420, P403 + P235, P501                     |
| H250 / Catches fire spontaneously if exposed to air                                  | Pyrophoric liquids; Pyrophoric solids                                     |  | P210, P222, P280, P302 + P334, P370 + P378, P422                                       |
| H251 / Self-heating; may catch fire                                                  | Self-heating substances and mixtures                                      |  |                                                                                        |
| H252 / Self-heating in large quantities; may catch fire                              | Self-heating substances and mixtures                                      |  | P280, P235 + P410, P407, P413, P420                                                    |
| H260 / In contact with water releases flammable gases which may ignite spontaneously | Substances And Mixtures Which, In Contact With Water,Emit Flammable Gases |                                                                                      |                                                                                        |
| H261 / In contact with water releases flammable gas                                  | Substances And Mixtures Which, In Contact With Water,Emit Flammable Gases |                                                                                      | P223, P280, P231 + P232, P335 + P334, P370 + P378, P402 + P404, P501                   |
| H261 / In contact with water releases flammable gas                                  | Substances And Mixtures Which, In Contact With Water,Emit Flammable Gases |                                                                                      | P280, P231 + P232, P370 + P378, P402 + P404, P501                                      |
| H270 / May cause or intensify fire; oxidizer                                         | Oxidising gases                                                           |  | P220, P244, P370 + P376, P403                                                          |

| Code / Hazard statements                                              | Hazard class                       | Pictogram                                                                            | P-Codes                                                                          |
|-----------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| H271 / May cause fire or explosion; strong oxidiser                   | Oxidising liquids;Oxidising solids |    | P210, P220, P221, P280, P283, P306 + P360, P370 + P378, P371 + P380 + P375, P501 |
| H272 / May intensify fire; oxidizer                                   | Oxidising liquids;Oxidising solids |    | P210, P220, P221, P280, P370 + P378, P501                                        |
| H272 / May intensify fire; oxidizer                                   | Oxidising liquids;Oxidising solids |    | P210, P220, P221, P280, P370 + P378, P501                                        |
| H280 / Contains gas under pressure; may explode if heated             | Gases under pressure               |    | P410 + P403                                                                      |
| H281 / Contains refrigerated gas; may cause cryogenic burns or injury | Gases under pressure               |    | P282, P315, P336, P403                                                           |
| H290 / May be corrosive to metals                                     | Corrosive to Metals                |   | P234, P390, P404                                                                 |
| H300 / Fatal if swallowed                                             | Acute toxicity,oral                |  | P264, P270, P321, P330, P301 + P310, P405, P501                                  |
| H301 / Toxic if swallowed                                             | Acute toxicity,oral                |  | P264, P270, P321, P330, P301 + P310, P405, P501                                  |
| H302 / Harmful if swallowed                                           | Acute toxicity,oral                |                                                                                      | P264, P270, P312, P330, P301 + P312, P501                                        |
| H303 / May be harmful if swallowed                                    | Acute toxicity,oral                |                                                                                      |                                                                                  |
| H304 / May be fatal if swallowed and enters airways                   | Aspiration hazard                  |  |                                                                                  |
| H305 / May be fatal if swallowed and enters airways                   | Aspiration hazard                  |                                                                                      | P331, P301 + P310, P405, P501                                                    |
| H310 / Fatal in contact with skin                                     | Acute toxicity,dermal              |  | P262, P264, P270, P280, P310, P322, P361, P363, P302 + P350, P405, P501          |
| H311 / Toxic in contact with skin                                     | Acute toxicity,dermal              |  | P280, P312, P322, P361, P363, P302 + P352, P405, P501                            |

| Code / Hazard statements                                                         | Hazard class                                                                 | Pictogram                                                                            | P-Codes                                                                                                                 |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| H312 / Harmful in contact with skin                                              | Acute toxicity,dermal                                                        |    | P280, P312, P322, P363, P302 + P352, P501                                                                               |
| H313 / May be harmful in contact with skin                                       | Acute toxicity,dermal                                                        |                                                                                      | P312                                                                                                                    |
| H314 / Causes severe skin burns and eye damage                                   | Skin corrosion/irritation                                                    |    | P260, P264, P280, P310, P321, P363, P301 + P330 + P331, P303 + P361 + P353, P304 + P340, P305 + P351 + P338, P405, P501 |
| H315 / Causes skin irritation                                                    | Skin corrosion/irritation                                                    |    | P264, P280, P321, P362, P302 + P352, P332 + P313                                                                        |
| H316 / Causes mild skin irritation                                               | Skin corrosion/irritation                                                    |                                                                                      | P332 + P313                                                                                                             |
| H317 / May cause an allergic skin reaction                                       | Sensitisation, Skin                                                          |   | P261, P272, P280, P321, P363, P302 + P352, P333 + P313, P501                                                            |
| H318 / Causes serious eye damage                                                 | Serious eye damage/eye irritation                                            |  | P280, P310, P305 + P351 + P338                                                                                          |
| H319 / Causes serious eye irritation                                             | Serious eye damage/eye irritation                                            |  | P264, P280, P305 + P351 + P338, P337 + P313                                                                             |
| H320 / Causes eye irritation                                                     | Serious eye damage/eye irritation                                            |                                                                                      | P264, P305 + P351 + P338, P337 + P313                                                                                   |
| H330 / Fatal if inhaled                                                          | Acute toxicity,inhalation                                                    |  | P260, P271, P284, P310, P320, P304 + P340, P405, P403 + P233, P501                                                      |
| H331 / Toxic if inhaled                                                          | Acute toxicity,inhalation                                                    |  | P261, P271, P311, P321, P304 + P340, P405, P403 + P233, P501                                                            |
| H332 / Harmful if inhaled                                                        | Acute toxicity,inhalation                                                    |                                                                                      | P261, P271, P312, P304 + P340                                                                                           |
| H333 / May be harmful if inhaled                                                 | Acute toxicity,inhalation                                                    |                                                                                      | P304 + P312                                                                                                             |
| H334 / May cause allergy or asthma symptoms or breathing difficulties if inhaled | Sensitisation, respiratory                                                   |  | P261, P285, P304 + P341, P342 + P311, P501                                                                              |
| H335 / May cause respiratory irritation                                          | Specific target organ toxicity, single exposure;Respiratory tract irritation |  |                                                                                                                         |

| Code / Hazard statements | Hazard class | Pictogram | P-Codes |
|--------------------------|--------------|-----------|---------|
|--------------------------|--------------|-----------|---------|

|                                                                       |                                                                   |                                                                                      |                                                        |
|-----------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------|
| H336 / May cause drowsiness or dizziness                              | Specific target organ toxicity, single exposure; Narcotic effects |    | P261, P271, P312, P304 + P340, P405, P403 + P233, P501 |
| H340 / May cause genetic defects                                      | Germ cell mutagenicity                                            |    |                                                        |
| H341 / Suspected of causing genetic defects                           | Germ cell mutagenicity                                            |    | P201, P202, P281, P308 + P313, P405, P501              |
| H350 / May cause cancer                                               | Carcinogenicity                                                   |    |                                                        |
| H351 / Suspected of causing cancer                                    | Carcinogenicity                                                   |    | P201, P202, P281, P308 + P313, P405, P501              |
| H360 / May damage fertility or the unborn child                       | Reproductive toxicity                                             |   | P201, P202, P281, P308 + P313, P405, P501              |
| H361 / Suspected of damaging fertility or the unborn child            | Reproductive toxicity                                             |                                                                                      |                                                        |
| H362 / May cause harm to breast-fed children                          | Reproductive toxicity, effects on or via lactation                |                                                                                      | P201, P260, P263, P264, P270, P308 + P313              |
| H370 / Causes damage to organs                                        | Specific target organ toxicity, single exposure                   |  | P260, P264, P270, P321, P307 + P311, P405, P501        |
| H371 / May cause damage to organs                                     | Specific target organ toxicity, single exposure                   |  | P260, P264, P270, P309 + P311, P405, P501              |
| H372 / Causes damage to organs through prolonged or repeated exposure | Specific target organ toxicity, single exposure                   |                                                                                      | P260, P264, P270, P301, P314, P501                     |
| H373 / Causes damage to organs through prolonged or repeated exposure | Specific target organ toxicity, single exposure                   |  | P260, P314, P501                                       |
| H400 / Very toxic to aquatic life                                     | Hazardous to the aquatic environment, acute hazard                |  | P273, P391, P501                                       |
| H401 / Toxic to aquatic life                                          | Hazardous to the aquatic environment, acute hazard                |                                                                                      | P273, P501                                             |
| H402 / Harmful to aquatic life                                        | Hazardous to the aquatic environment, acute hazard                |                                                                                      |                                                        |

| Code / Hazard statements                                                                   | Hazard class                                           | Pictogram                                                                          | P-Codes          |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------|------------------|
| H410 / Very toxic to aquatic life with long lasting effects                                | Hazardous to the aquatic environment, long-term hazard |  | P273, P391, P501 |
| H411 / Toxic to aquatic life with long lasting effects                                     | Hazardous to the aquatic environment, long-term hazard |                                                                                    |                  |
| H412 / Harmful to aquatic life with long lasting effects                                   | Hazardous to the aquatic environment, long-term hazard |                                                                                    | P273, P501       |
| H413 / May cause long lasting harmful effects to aquatic life                              | Hazardous to the aquatic environment, long-term hazard |                                                                                    |                  |
| H420 / Harms public health and the environment by destroying ozone in the upper atmosphere | Hazardous to the ozone layer                           |  | P502             |

## 1.Orders

To simplify the order process, please include your customer number, as well as the product number and packing size listed in our catalogue or in our quotation.

## 2.Prices and price changes

All quotes are in EUR, Ex.works Seller's Place. Special packing charges will be added to the invoice.

Since we try to ship all orders the day of receipt, shipment will be made promptly even if prices have been nominally increased (unless you tell us not to). Price reductions will automatically apply to the invoice.

## 3.Quotations

We will promptly quote on your needs, giving current prices and estimates of insurance and freight charges.



## 4.Acknowledgement

Orders which cannot be delivered from stock are acknowledged, with an estimated delivery time, which may be subject to alteration.

## 5.Transport

All consignments are dispatched at the risk of the consignee. This included coverage provided by the shipping carrier. Charges are to the customer's account.

## 6.Claims for lost or Damaged Shipments

If you should need assistance in filing a claim for lost, incomplete or damaged shipment, we will be happy to help you. Please inspect packages immediately upon receipt and inform our Sales Department of any shortage or damage within 3 days of receipt.

## 7.Return Shipments

We will not accept return shipments unless we have given prior written permission and shipping instructions. Returned shipments must pass all current packing and transportation regulations.

## 8.Bulk Quantities

Most of the chemicals listed in this catalogue can be supplied in larger quantities. Contact us for prompt quotation on price and delivery.

## 9.Custom Synthesis

We are constantly adding new products and welcome suggestions. If you require a chemical not listed in our catalogue, we will consider making it as a custom synthesis.

## 10.End User Statement

For certain chemicals we may ask the buyer to provide written assurance that the chemicals will neither be purchased nor resold for an improper use. We will consider requests for commercial use of our products. Please contact our Sales Department.

## 11.Use

Throughout this catalogue we list possible uses for certain chemicals as described in the referenced literature. These uses are provided for experimental or technical purposes only; that is, use in the laboratory under supervision of a technically qualified person. We expressly disclaim any warranties of merchantability and fitness for a particular purpose.



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Web : [www.biochemopharma.fr](http://www.biochemopharma.fr)

contact : [info@biochemopharma.fr](mailto:info@biochemopharma.fr)

## 1. Acceptance

**All sales are subject to an expressly conditioned upon the terms and conditions contained herein, and upon Buyer's assent thereto. No variation of these terms and conditions will be binding upon Seller unless agreed to in writing and signed by an officer or other authorized representative of Seller.**

## 2. Changes

Orders arising hereunder may be changed or amended only by written agreement signed by both Buyer and Seller, setting forth the particular changes to be made and the effect, if any, of such changes on the price and time of delivery. Buyer may not cancel this order unless such cancellation is expressly agreed to in writing by Seller. In such event, Seller will advise Buyer of the total charge for such cancellation, and Buyer agrees

to pay such charges, including, but not limited to, storage and shipment costs, costs of producing non-standard materials, costs of purchasing non-returnable materials, cancellation costs imposed on Seller by its suppliers, and any other cost resulting from cancellation of this order by Buyer which is permitted by Seller.

Certification of such costs by Seller's independent public accountants shall be conclusive on the parties hereto.

## 3. Delivery, Claims, Delays

Unless specified differently in writing, all sales are FCA Seller's shipping point. Delivery of goods to the carrier at Seller's plant or other loading point, shall constitute delivery to Buyer and regardless of shipping terms, all risk of loss or damage in transit shall be borne by Buyer. The general method of shipment for each item will be in accordance with the method specified by Buyer.

However, Seller reserves the right, in its discretion, to determine the exact method of shipment. Seller reserves the right to make delivery in installments, all such installments to be separately invoiced and paid for when due per invoice, without regard to subsequent deliveries. Delay in delivery of any installment shall not

relieve Buyer of Buyer's obligation to accept remaining deliveries.

Immediately upon Buyer's receipt of any goods shipped hereunder, Buyer shall inspect the same and shall notify Seller in writing of any claims for shortages, defects or damages and shall hold the goods for Seller's written instructions concerning disposition.

If Buyer shall fail to so notify Seller within three days after the goods have been received by Buyer, such goods shall conclusively be deemed to conform to the terms and conditions hereof and to have been irrevocably accepted by the Buyer. Seller shall not be liable for any loss, damage or penalty as a result of any delay in or failure to manufacture, deliver, or otherwise perform hereunder due

to any cause beyond Seller's reasonable control, including, without limitation, unsuccessful reactions, act of Buyer, embargo or other governmental act, regulation or request affecting the conduct of Seller's business, fire, explosion, accident, theft, vandalism, riot, acts of war, strikes or other labor difficulties, lightning, flood, windstorm or other acts of God, delay transportation, or inability to obtain necessary labor, fuel, materials, supplies, or power at current prices.

## 4. Allocation of Goods

If Seller is unable, for any reason, to supply the total demands for goods specified in Buyer's order, Seller may allocate its available supply among any or all buyers on such basis as Seller may deem fair and practical, without liability for any failure of performance that may result therefrom.

## 5. Payment

Terms of sale are net 30 days of date of invoice, unless otherwise stated.

If the financial condition of Buyer result in the insecurity of Seller, in its sole and unfettered discretion, as to the ultimate collectability of the purchase price, Seller may, without notice to Buyer, delay or postpone the delivery of the products; and Seller, at its option, is authorized to change the terms of payment to payment in full or in part in advance of shipment of the entire undelivered balance of said products. In the event of default by

Buyer in the payment of purchase price or otherwise, of this or any other order, Seller, at its option, without prejudice to any other of Seller's lawful remedies, may defer delivery, cancel this Contract, or sell any undelivered products on hand for the account of Buyer and apply such proceeds as a credit, without set-off or deduction of any kind, against the contract purchase price, and Buyer agrees to pay the balance then due to Seller on demand. Buyer agrees to pay all costs, including, but not limited to, reasonable attorney and accounting fees and other expenses of collection resulting from any default by Buyer in any of the terms hereof.

## 6. Taxes and Other Charges

Any use tax, sales tax, excise tax, duty, custom, inspection or testing fee, or any other tax, fee, or charge of any nature whatsoever imposed by any governmental authority, on or measured by the transaction between Seller and Buyer shall be paid by Buyer in addition to the prices quoted or invoiced. In the event Seller is required to pay any such tax, fee, or charge, Buyer shall reimburse Seller therefor; or, in lieu of such payment, Buyer shall provide Seller, at the time the order is submitted, an exemption certificate or other document acceptable to the authority imposing the tax, fee, or charge.

## 7. Warranties

Seller warrants that its products shall conform to the description of such products as provided to Buyer by Seller through Seller's catalogue, analytical data, or other literature. **This warranty is exclusive, and Seller makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.** Seller's warranties made in connection with this sale shall not be effective if Seller has determined, in its sole discretion, that Buyer has misused the products in any manner, has failed to use the products in accordance with industry standards and practices, or has failed to use the products in accordance with instructions, if any, furnished by Seller.

[illegible]

## Notes

[illegible]

18 **VIII A**18 **VIII A**

Group classification

|               |   |               |        |
|---------------|---|---------------|--------|
| Atomic number | 5 | Atomic weight | 10.811 |
| 13            |   | IIIA          |        |
| B             |   | BORON         |        |
| Symbol        |   | Element       |        |

Physical state

Ne -Gaz  
Ga -Liquid  
Fe -Solid  
Tc -Synthetical

Group classification

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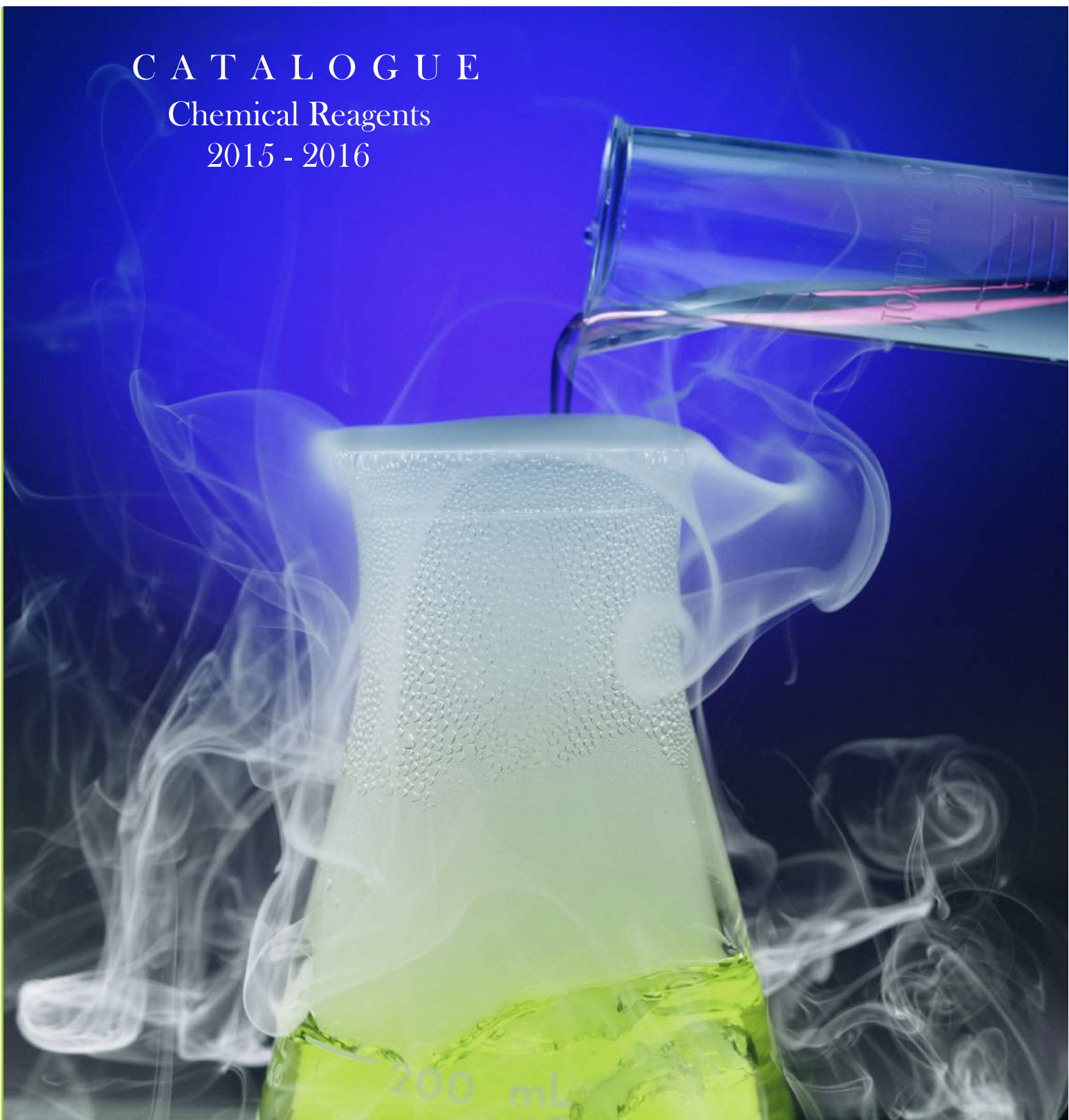
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