

# bio**sera**

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GENERAL CATALOG

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HIGH QUALITY ANIMAL SERA  
MEDIA AND ADDITIVES FOR CELL CULTURE

# biosera

GENERAL CATALOG **2017 EDITION**

Dear customer,

Biosera is pleased to present its brand new catalog.  
You will find a wide range of essential products for an optimal culture of your cells,  
from serums to antibiotics to medias.

Don't stop there, Biosera can accompany you in your research  
and meet your different requirements by adapting to your requests.

Do not hesitate to contact us,  
Kind regards

**BIOSERA**

*Your best partner in cell culture*

[WWW.BIOSERA.COM](http://WWW.BIOSERA.COM)

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**biosera**  
p10260

**RPMI 1640**

w/ L-Glutamine  
Sterile Filtered

Cat. n° : LM-R1640/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : +2°C/+8°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**bio**  
p10260

**Earle's**

w/ Calcium  
w/o Sodium  
Sterile Filtered

Cat. n° :  
Lot n° :  
Exp. date :  
Volume :  
Storage :

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**biosera**  
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**Penicillin-Streptomycin**

Solution 100 X Sterile Filtered

Cat. n° : XC-A4122/100  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 10ml  
Storage : -20°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**biosera**  
p10260

**DMEM High Glucose**

w/ Stable Glutamine  
w/ Sodium Pyruvate  
Sterile Filtered

Cat. n° : LM-D1110/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : +2°C/+8°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**biosera**  
p10260

**Amphotericin B**

Sterile Filtered

Cat. n° : LM-A4109/50  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 50ml  
Storage : -20°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



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p10260

**Fetal Bovine Serum**

South America Origin  
Sterile Filtered

Cat. n° : FB-1001/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : -20°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.

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# COMPANY PROFILE

## **bio**sera



Close to important collection centers and with a certified production unit, BIOSERA is one of the world's leading suppliers of animal serum and cell culture media.

Its customers in France and all over the world through a distribution network, trust in the quality of BIOSERA's ISO9001 and ISO13485 certified production.



**biosera**  
plazet

**Fetal Bovine Serum**

Chile, USDA approved  
Sterile Filtered

Cat. n° : FB-1365/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : -20°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**biosera**  
plazet

**Fetal Bovine Serum**  
**South America Origin**

Sterile Filtered

Cat. n° : FB-1001/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : -20°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**biosera**  
plazet

**Fetal Bovine Serum**  
**French Origin**

Sterile Filtered

Cat. n° : FB-1280/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : -20°C

For in vitro laboratory use only.  
Not for drug, human or veterinary use.

# FETAL BOVINE SERUM & OTHER SERA



The various studies of cells grown in vitro, have made considerable advances in many Scientific Research fields. Depending on the cell type studied, the culture conditions must be adapted and optimized for ideal growth of the cells and as close as possible to the living model.

Serum produced from animal blood is commonly used as a supplement to basic growth medium in cell cultures. The role of serum in cell cultures is essential. It stimulates cell growth, proliferation and differentiation through hormonal factors present in the serum. The adherent factors enhance cell attachment on culture dishes. While a wide variety of proteins in serum provide hormones, minerals and lipids inhibit certain toxic substances.

The most common type of serum used for cell growth is fetal bovine serum. No other supplement has provided the same degree of universality in cell growth stimulation, as has FBS.

## FETAL BOVINE SERUM (FBS)

### PRODUCTION

Fetal Bovine Serum (FBS) is derived from coagulated whole blood, collected from the fetus by cardiac puncture. The blood is immediately centrifuged and the serum is frozen for transfer to our treatment facilities. Upon receipt at the processing plant, the serum is thawed, tested for acceptability, collected and passed through three sterilization filters of 100 nm (0.1 µm). The serum is bottled by an aseptic filling process.

### QUALITY CONTROL TESTS

All sera are rigorously tested for sterility, mycoplasmas and viruses (BVD, IBR and PI3). Each batch is also tested for its ability to support in vitro cell growth, plating efficiency and cloning efficiency on the following cell lines: HeLa, L929, SP2 / O-AG14, MRC-5. Certified and specially certified sera are subjected to a battery of additional tests including endotoxin, chemical components, protein electrophoresis and radial immunodiffusion.

### BSE

Donors of European origin are tested for BSE before slaughter in accordance with European Regulation 999/2001. All animals tested are BSE negative.

### COMPLETE TRACEABILITY

For all our batches, we insure complete traceability. The labeling system is computerized and designed for clarity from batch to batch. Each batch is monitored throughout processing and production up to final packaging. The geographical origin is indicated on the Certificate of Analysis sent with each delivery of fetal bovine serum.




**Fetal Bovine Serum (South America)**

» Cat. n°: FB-1001/100

 100ml

» Cat. n°: FB-1001/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (South Africa)**

» Cat. n°: FB-1003/100

 100ml



» Cat. n°: FB-1003/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (France)**

» Cat. n°: FB-1280/100

 100ml

» Cat. n°: FB-1280/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (Ireland)**

» Cat. n°: FB-1285/100

 100ml


» Cat. n°: FB-1285/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (USA)**

» Cat. n°: FB-1350/100

 100ml

» Cat. n°: FB-1350/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (Central America, USDA approved)**

» Cat. n°: FB-1345/100

 100ml

» Cat. n°: FB-1345/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (Mexico, USDA approved)**

» Cat. n°: FB-1360/100

 100ml


» Cat. n°: FB-1360/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (Dominican Republic)**

» Cat. n°: FB-1061/100

 100ml



» Cat. n°: FB-1061/500

 500ml Frozen -20°C Sterile 60 months**Fetal Bovine Serum (Chile, USDA approved)**

» Cat. n°: FB-1365/100

 100ml

» Cat. n°: FB-1365/500

 500ml Frozen -20°C Sterile 60 months


### Fetal Bovine Serum (Japan approved)

» Cat. n° : FB-1380/100

 100ml


» Cat. n° : FB-1380/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

### Fetal Bovine Serum (Uruguay)

» Cat. n° : FB-1058/100

 100ml


» Cat. n° : FB-1058/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

## FETAL BOVINE SERUM SPECIFICALLY TESTED AND/OR WITH TREATMENTS

Biosera is able to offer special tests & treatments on all sera to meet customers' specific requirements.

The feasibility depends on the desired volume.

To order a test or treatment on a serum of another species or origin, add the letter code corresponding to each test/treatment (e.g : DH-291H/500 for donor horse serum heat inactivated).

If you require a test or a treatment not listed here, please contact your local Biosera office or Distributor.

## FBS ULTRA LOW ENDOTOXIN


### Fetal Bovine Serum (South America), Ultralow Endotoxin

» Cat. n° : FB-1101/100

 100ml


» Cat. n° : FB-1101/500

 500ml

 Frozen

 -20°C

 Sterile


 60 months

## FBS PREMIUM

### Fetal Bovine Serum (South America), Premium | Code: B

» Cat. n°: FB-1001B/100

 100ml

 Frozen

 -20°C

 Sterile

 60 months

» Cat. n°: FB-1001B/500

 500ml

## FBS HEAT INACTIVATED

### Fetal Bovine Serum (South America), Heat Inactivated | Code: H

» Cat. n°: FB-1001H/100

 100ml

 Frozen

 -20°C

 Sterile

 60 months

» Cat. n°: FB-1001H/500


 500ml

## FBS GAMMA IRRADIATED

### Fetal Bovine Serum (South America), Gamma Irradiated | Code: G

» Cat. n°: FB-1001G/100

 100ml

 Frozen

 -20°C

 Sterile

 60 months

» Cat. n°: FB-1001G/500


 500ml

## FBS TETRACYCLINE FREE

### Fetal Bovine Serum (South America), Tetracycline free | Code: T


» Cat. n°: FB-1001T/100

 100ml

 Frozen

 -20°C

 Sterile

 60 months

» Cat. n°: FB-1001T/500

 500ml

## FBS EMBRYONIC STEM CELL TESTED

### Fetal Bovine Serum (South America), Embryonic Stem Cells tested | Code: S


» Cat. n°: FB-1001S/100

 100ml

 Frozen

 -20°C

 Sterile

 60 months

» Cat. n°: FB-1001S/500

 500ml

## FBS CHARCOAL STRIPPED


### Fetal Bovine Serum (South America), Charcoal Stripped | Code : F

» Cat. n° : FB-1001F/100

 100ml


» Cat. n° : FB-1001F/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

## FBS DIALYSED


### Fetal Bovine Serum (South America), Dialysed | Code : D

» Cat. n° : FB-1001D/100

 100ml


» Cat. n° : FB-1001D/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

## FBS LIPID DEPLETED


### Fetal Bovine Serum (South America), Lipid Depleted | Code : L

» Cat. n° : FB-1001L/100

 100ml


» Cat. n° : FB-1001L/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

## FBS IRON SUPPLEMENTED


### Fetal Bovine Serum (South America), Iron Supplemented | Code : R

» Cat. n° : FB-1001R/100

 100ml


» Cat. n° : FB-1001R/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

## FBS BIOPHARM

### Fetal Bovine Serum Biopharm (South America) | Code : A

» Cat. n° : FB-1001A/500

 500ml

 Frozen

 -20°C

 Sterile

 60 months

## OTHER ANIMAL SERUM AND PLASMA



As a serum specialist, Biosera can also provide sera from other animals for your experiments. Please contact your nearest retailer / distributor for availability.

### ANIMAL SERUM

#### Bovine Serum (France)

» Cat. n°: BS-110/100

100ml

» Cat. n°: BS-110/500

500ml

Frozen

-20°C

Sterile

60 months

#### Calf Serum

» Cat. n°: CA-115/500

500ml

Frozen

-20°C

Sterile

60 months

#### New Born Calf Serum

» Cat. n°: NB-112/500

500ml

Frozen

-20°C

Sterile

60 months

#### Horse Serum

» Cat. n°: HO-290/500

500ml

Frozen

-20°C

Sterile

60 months

#### Donor Horse Serum

» Cat. n°: DH-291/500

500ml

Frozen

-20°C

Sterile

60 months

#### Donor Foal Serum

» Cat. n°: DF-190/500

500ml

Frozen

-20°C

Sterile

60 months

#### Donkey Serum

» Cat. n°: AS-228/500

500ml

Frozen

-20°C

Sterile

60 months

#### Goat Serum

» Cat. n°: GO-605/500

500ml



Frozen

-20°C

Sterile

60 months


### Lamb Serum

» Cat. n° : LA-625/500  500ml  Frozen  -20°C  Sterile  60 months

### Sheep Serum

» Cat. n° : SH-650/500  500ml  Frozen  -20°C  Sterile  60 months





### Pig Serum

» Cat. n° : PI-619/500  500ml  Frozen  -20°C  Sterile  60 months




### Chicken Serum





» Cat. n° : CH-515/500  500ml  Frozen  -20°C  Sterile  60 months

### Rabbit Serum (France)


» Cat. n° : RS-4500/500  500ml  Frozen  -20°C  Sterile  60 months





### Rat Serum

» Cat. n° : RS-4150/50  50ml  
» Cat. n° : RS-4150/100  100ml  
» Cat. n° : RS-4150/500  500ml

 Frozen  -20°C  Sterile  60 months

### Mouse Serum

» Cat. n° : MO-340/50  50ml  
» Cat. n° : MO-340/100  100ml  
» Cat. n° : MO-340/500  500ml

 Frozen  -20°C  Sterile  60 months



### Guinea Pig Serum

» Cat. n° : GU-310/10  10ml  
» Cat. n° : GU-310/100  100ml

 Frozen  -20°C  Sterile  60 months

## ANIMAL PLASMA



### Bovine Plasma w/ Sodium Citrate

» Cat. n° : BP-116/500  500ml  Frozen  -20°C  Sterile  48 months

**Rabbit Plasma w/ EDTA Tetrasodium Salt**

» Cat. n°: RP-4600/500  500ml  Frozen  -20°C  Sterile  48 months

**Rat Plasma w/ Lithium Heparin**

» Cat. n°: RP-4140/100  100ml  Frozen  -20°C  Sterile  48 months

**Mouse Plasma w/ Lithium Heparin**




» Cat. n°: MP-341/100  100ml  Frozen  -20°C  Sterile  48 months





**BOVINE SERUM ALBUMIN (BSA)**

Albumin is the main protein of blood plasma. Bovine Serum Albumin (BSA) is commonly used in cell culture protocols, particularly where protein supplementation is necessary and when other serum components are unwanted.




The BSA is produced using a unique patented method derived from the "heat shock" method.





**Bovine Serum Albumin (BSA) Lyophilised pH ~7**

» Cat. n°: PM-T1725/100  100g  
 » Cat. n°: PM-T1725/500  500g  
 » Cat. n°: PM-T1725/1000  1 kg




 Powder  2/8°C  Non sterile  36 months





**Bovine Serum Albumin (BSA) Protease Free Lyophilised**

» Cat. n°: PM-T1726/100  100g  
 » Cat. n°: PM-T1726/500  500g  
 » Cat. n°: PM-T1726/1000  1 kg

 Powder  2/8°C  Non sterile  36 months

**Bovine Serum Albumin (BSA) Fatty Acids Free Lyophilised**

» Cat. n°: PM-T1727/100  100g  
 » Cat. n°: PM-T1727/500  500g  
 » Cat. n°: PM-T1727/1000  1 kg

 Powder  2/8°C  Non sterile  36 months

**Bovine Serum Albumin (BSA) 30%**

» Cat. n°: SA-296/1000  1000ml  Liquid  2/8°C  Sterile  36 months



# SYNTHETIC CELL CULTURE MEDIA



All cell culture media produced by the production unit are manufactured according to the standards of the Tissue Culture Association.

- All the chemicals, raw materials and equipments used to produce our media are of the best quality (*references ACS, USP, EP FCC, WIFI water tested for endotoxin*)
- The material used for the production of powdered or liquid media consists of chemical-inert and non-contaminating materials
- The sterilization of the liquid media is carried out by filtration at 0.1 micron
- Osmolarity and pH are controlled for powder media
- Osmolarity, sterility and pH are controlled for liquid media

The protocols and the final tests carried out ensure and respect the constraints of quality and the formulas for each batch produced.

Biosera can produce custom media for users who request it and can provide an accurate list of required components. Being able to produce specific formulas requested by researchers, is one of the trade-marks of the company.






**Ask us for the cell culture media you would like to have the production outsourced**  
(with or without confidential agreement / exclusivity contracts).

## BASAL MEDIUM EAGLE (BME)

The Basal Medium Eagle (BME), developed by Harry Eagle, is one of the most widely used of all synthetic cell culture media. There are several “basal” culture media described by Eagle that vary slightly from one to another. The Tissue Culture Association recommends using the name “Basal Medium Eagle” to describe only the formula developed to support HeLa cells.

The Basal Medium Eagle, when properly supplemented, has demonstrated broad applicability for supporting single layer growth of a wide variety of normal and transformed cell lines. BME is the predecessor of Eagle Minimum Essential Medium (MEM) and Dulbecco Modified Eagle Medium (D-MEM). This is the simplest of the basic media with all the essential components for cell growth. Basal Medium Eagle (BME) ideally favors cell lines such as HeLa, L-cells and primary mammalian fibroblasts.

### BME w/ Earle's Salts w/o L-Glutamine

» Cat. n°: LM-B1001/500  500ml  Liquid  2/8°C  Sterile  24 months

### BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-B1007/1L  Pour 1L  
» Cat. n°: PM-B1007/10L  Pour 10L  Powder  2/8°C  Non sterile  48 months

## CMRL 1066

CMRL media was originally developed by Connaught Medical Research Laboratories for the growth of Earle's “L” cells under serum-free conditions. CMRL media is also especially useful for cloning monkey kidney cells and for growth of many other mammalian cell lines when supplemented with horse or calf serum.

### CMRL w/ L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-C1051/1L  Pour 1L  
» Cat. n°: PM-C1051/10L  Pour 10L  Powder  2/8°C  Non sterile  24 months

## DULBECCO' MODIFIED EAGLE MEDIUM (DMEM)



The DMEM medium is a modification of the BME which contains a higher concentration of amino acids, vitamins and other additives. DMEM is for supporting and maintaining a wide range of mammalian cell types.

There are two versions: with a high glucose content (4.5g / L) or a low content (1.0g / L). The DMEM low glucose has been developed for the culture of mouse embryonic cells.

### DMEM HIGH GLUCOSE

#### DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate

» Cat. n°: LM-D1108/500 500ml Liquid 2/8°C Sterile 24 months

#### DMEM High Glucose w/ L-Glutamine w/o Sodium Pyruvate

» Cat. n°: LM-D1109/500 500ml Liquid 2/8°C Sterile 12 months

#### DMEM High Glucose w/ stable Glutamine w/ Sodium Pyruvate

» Cat. n°: LM-D1110/500 500ml Liquid 2/8°C Sterile 24 months

#### DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate

» Cat. n°: LM-D1111/500 500ml Liquid 2/8°C Sterile 12 months

#### DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate

» Cat. n°: LM-D1112/500 500ml Liquid 2/8°C Sterile 24 months

#### DMEM High Glucose w/o L-Glutamine w/ 25mM HEPES<sup>1</sup> w/o Sodium Pyruvate

» Cat. n°: LM-D1107/500 500ml Liquid 2/8°C Sterile 12 months

#### DMEM High Glucose w/ stable Glutamine w/ 25mM HEPES<sup>1</sup> w/o Sodium Pyruvate

» Cat. n°: LM-D1113/500 500ml Liquid 2/8°C Sterile 24 months

1- HEPES : 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid

## DMEM HIGH GLUCOSE (FOLLOWING)

### DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate

» Cat. n°: PM-D1114/1L  Pour 1 L |  Powder  2/8°C  Non sterile  36 months

» Cat. n°: PM-D1114/10L  Pour 10L






### DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate

» Cat. n°: PM-D1115/1L  Pour 1 L |  Powder  2/8°C  Non sterile  36 months

» Cat. n°: PM-D1115/10L  Pour 10L

## DMEM LOW GLUCOSE






### DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate

» Cat. n°: LM-D1099/500  500ml  Liquid  2/8°C  Sterile  12 months

### DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate

» Cat. n°: LM-D1100/500  500ml  Liquid  2/8°C  Sterile  24 months

### DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/ 25 mM Hepes

» Cat. n°: LM-D1101/500  500ml  Liquid  2/8°C  Sterile  12 months

### DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate

» Cat. n°: LM-D1102/500  500ml  Liquid  2/8°C  Sterile  24 months

### DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate

» Cat. n°: PM-D1105/1L  Pour 1 L |  Powder  2/8°C  Non sterile  36 months

» Cat. n°: PM-D1105/10L  Pour 10L

## DMEM HAM'S F12



The DMEM Ham's F12 offers excellent performance for certain epithelial, endothelial and granulose cell types. With proper supplementation, it is a highly successful basic media for serum free cell culture.



### DMEM - F12 w/o L- Glutamine w/o HEPES

» Cat. n°: LM-D1220/500 500ml Liquid 2/8°C Sterile 24 months

### DMEM - F12 w/o L-Glutamine w/o HEPES w/o Glucose

» Cat. n°: LM-D1221/500 500ml Liquid 2/8°C Sterile 24 months

### DMEM - F12 w/ stable Glutamine w/ 15 mM HEPES

» Cat. n°: LM-D1222/500 500ml Liquid 2/8°C Sterile 24 months

### DMEM - F12 w/ L-Glutamine w/ 15 mM HEPES

» Cat. n°: LM-D1223/500 500ml Liquid 2/8°C Sterile 12 months

### DMEM - F12 w/o L-Glutamine w/ 15 mM HEPES

» Cat. n°: LM-D1224/500 500ml Liquid 2/8°C Sterile 24 months

### DMEM - F12 w/ L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-D1225/500 500ml Liquid 2/8°C Sterile 12 months

### DMEM - F12 w/o L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-D1226/500 500ml Liquid 2/8°C Sterile 24 months






### DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM HEPES

» Cat. n°: PM-D1227/1L Pour 1L Powder 2/8°C Non sterile 36 months  
 » Cat. n°: PM-D1227/10L Pour 10L

## GLASGOW MEM BHK 21

Glascow Minimum Essential Medium was originally developed by Ian MacPherson and Michael Stoker as a modification of Eagle's medium (BME). The modifications included adding 10% tryptose phosphate broth and twice the normal concentration of amino acids and vitamins. This medium was used to study the genetic factors affecting cell competence. Polyoma virus was used to transform four fibroblast clones from a culture of baby hamster kidney cells.

### Glasgow MEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth

» Cat. n°: LM-G2121/500  500ml  Liquid  2/8°C  Sterile  12 months






### Glasgow MEM BHK21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth

» Cat. n°: PM-G2120/1L  Pour 1 L  
» Cat. n°: PM-G2120/10L  Pour 10L  Powder  2/8°C  Non sterile  36 months

## HAM'S F10 / F-10 NUTRIENT MEDIUM

Ham's F10 is used to support the growth of Chinese Hamster Ovary cells under serum free conditions and other mammalian cell types with serum supplementation. It is a popular medium for growth of fastidious cell lines.

### Ham's F10 w/ L-Glutamine

» Cat. n°: LM-H1040/500  500ml  Liquid  2/8°C  Sterile  12 months

**Ham's F10 w/o L-Glutamine**

» Cat. n°: LM-H1045/500  500ml  Liquid  2/8°C  Sterile  24 months






**Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate**

» Cat. n°: PM-H1046/1L  Pour 1 L  
 » Cat. n°: PM-H1046/10L  Pour 10 L  Powder  2/8°C  Non sterile  36 months

**HAM'S F12 / F-12 NUTRIENT MEDIUM**

Ham's F12 was originally developed for the serum-free clonal growth of Chinese Hamster Ovary (CHO) cells, lung cells and mouse L-cells. It is the medium of choice for supporting the growth of cells of rodent origin (particularly rabbit and rat) and has proved to be an excellent cloning medium for the culture of myeloma and hybrid cells (hybridomas).

**Ham's F12 w/ L-Glutamine**

» Cat. n°: LM-H1235/500  500ml  Liquid  2/8°C  Sterile  12 months

**Ham's F12 w/o L-Glutamine**

» Cat. n°: LM-H1236/500  500ml  Liquid  2/8°C  Sterile  24 months

**Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate**

» Cat. n°: PM-H1234/1L  Pour 1 L  
 » Cat. n°: PM-H1234/10L  Pour 10 L  Powder  2/8°C  Non sterile  36 months

## HAM'S F14 / F-14 NUTRIENT MEDIUM

Ham's F14 Medium was elaborated from our Ham's F12 which was originally developed for the serum-free clonal growth of Chinese Hamster Ovary (CHO) cells, lung cells and mouse L-cells. Ham's F14 contains a double concentration of amino acids compared to the Ham's F12.

This product is also supplemented with Calcium Chloride and Ascorbic Acid.

### Ham's F14 w/ 6g/L Glucose w/ 1mg/L ATP


» Cat. n°: LM-H1438/500

 500ml

 Liquid

 2/8°C

 Sterile

 24 months

## ISCOVE'S MODIFIED DULBECCO'S MEDIUM (IMDM)

Iscoves media are enriched modifications of DMEM containing sodium selenite. They are excellent for rapidly proliferating high-density cell cultures. The addition of BSA, purified human transferrin and soybean lecithin creates serum free condition ideal for supporting B and T lymphocytes. IMDM was the first media utilizing HEPES buffer. Other cell types can be cultured using this medium under serum free or reduced serum conditions.

### IMDM w/ L- Glutamine w/ 25mM HEPES


» Cat. n°: LM-I1090/500

 500ml

 Liquid

 2/8°C

 Sterile

 12 months

### IMDM w/ stable Glutamine w/ 25mM HEPES


» Cat. n°: LM-I1091/500

 500ml

 Liquid

 2/8°C

 Sterile

 24 months

### IMDM w/o L-Glutamine w/o HEPES


» Cat. n°: LM-I1092/500

 500ml

 Liquid

 2/8°C

 Sterile

 24 months

### IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM HEPES

» Cat. n°: PM-I1093/1L

 Pour 1L

 Powder

 2/8°C

 Non sterile

 36 months

» Cat. n°: PM-I1093/10L

 Pour 10L

## LEIBOVITZ L-15 MEDIUM



This media supports cell lines such as HEp-2 and MMC-MK2 and primary explants of embryonic and adult human tissue. L-15 Medium (Leibovitz) was originally formulated for use in carbon dioxide free systems requiring sodium bicarbonate supplementation. L-15 is buffered by its complement of salts, free base amino acids and galactose (instead of glucose). Many viruses have been successfully cultivated with this medium.

### Leibovitz L15 Medium w/o L-Glutamine

» Cat. n°: LM-L1050/500

500ml

Liquid

2/8°C

Sterile

24 months

### Leibovitz L15 Medium w/ L-Glutamine

» Cat. n°: PM-L1051/1L

Pour 1 L

Powder

2/8°C

Non sterile

36 months

» Cat. n°: PM-L1051/10L

Pour 10L

## MC COY'S 5A MEDIUM



McCoy's media was originally formulated for growth and supporting of lymphocytes. This final modification produced a media identical to RPMI 1629. McCoy's 5A support the indefinite proliferation of Walker 256 carcinoma cells. In addition, it is excellent for the propagation of leukocytes, biopsy tissues, a broad range of human cell types and the most demanding normal or transformed cell lines.

### McCoy's 5A w/ L-Glutamine

» Cat. n°: LM-C1520/500

500ml

Liquid

2/8°C

Sterile

12 months

### McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-C1522/1L

Pour 1 L

Powder

2/8°C

Non sterile

36 months

» Cat. n°: PM-C1522/10L

Pour 10L

## MEDIUM 199



This complex medium was developed specifically for nutritional research of chicken fibroblasts. Today, medium 199 are widely used for the maintenance of non-transformed cells, vaccine and virus production and primary explants of epithelial cells.

The media can be formulated either with Earle salts or Hanks Salts. The media formulated with the Earle salts are buffered with a bicarbonate / carbonic acid solution and retain their pH in a CO<sub>2</sub> incubator. The use of the Earle salts under ambient conditions results in a rapid rise in the pH of the culture medium.

The media formulated with the Hanks salts are buffered with saline solutions designed for balancing in aerobic conditions and their use in a CO<sub>2</sub> incubator results in a rapid drop in the pH of the culture medium.

### Medium 199 w/ Hanks' Salts w/ L-Glutamine

» Cat. n°: LM-M1901/500 500ml Liquid 2/8°C Sterile 18 months

### Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate

» Cat. n°: LM-M1903/500 500ml Liquid 2/8°C Sterile 18 months

### Medium 199 w/ Earle's Salts w/o L-Glutamine

» Cat. n°: LM-M1904/500 500ml Liquid 2/8°C Sterile 24 months

### Medium 199 w/ Earle's Salts w/ Stable Glutamine w/ 25 mM Hepes

» Cat. n°: LM-M1909/500 500ml Liquid 2/8°C Sterile 24 months

### Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-M1906/1L Pour 1 L  
 » Cat. n°: PM-M1906/10L Pour 10L Powder 2/8°C Non sterile 36 months

### Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-M1907/1L Pour 1 L  
 » Cat. n°: PM-M1907/10L Pour 10L Powder 2/8°C Non sterile 36 months

### Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes

» Cat. n°: PM-M1908/1L Pour 1 L  
 » Cat. n°: PM-M1908/10L Pour 10L Powder 2/8°C Non sterile 36 months

## MINIMUM ESSENTIAL MEDIUM (MEM)








A modification of BME featuring increased amino acid levels to resemble more closely the protein content of human cells. MEM serves as a general medium ideal for the growth and maintenance of a wide range of mammalian cell types. Often used to support anchorage-dependent cells, however modified solutions can be used to support other cell types including calcium-free MEM for suspension cultures and MEM with Hanks' salts for diploid cells.

### MEM W/ EARLE'S SALT

*Minimum Essential Medium (MEM) with Earle's Balanced Salts is a modification of Eagle's earlier Basal Medium (BME) which contains a higher concentration of essential nutrients. These media promote the growth of a variety of normal and transformed cells. Since they contain Earle's Balanced Salts, they are suitable for use in atmospheres charged with CO<sub>2</sub> gas.*






#### MEM w/ Earle's Salts w/ L-Glutamine

» Cat. n°: LM-E1140/500  500ml  Liquid  2/8°C  Sterile  12 months

#### MEM w/ Earle's Salts w/ stable Glutamine

» Cat. n°: LM-E1141/500  500ml  Liquid  2/8°C  Sterile  24 months






#### MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA\*

» Cat. n°: LM-E1142/500  500ml  Liquid  2/8°C  Sterile  24 months



#### MEM w/ Earle's Salts w/o L-Glutamine

» Cat. n°: LM-E1143/500  500ml  Liquid  2/8°C  Sterile  24 months

#### MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-E1144/500  500ml  Liquid  2/8°C  Sterile  12 months

#### MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-E1145/500  500ml  Liquid  2/8°C  Sterile  24 months

\*NEAA : Non essentials amino acids

### MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA\* w/o Sodium Bicarbonate

» Cat. n°: PM-E1156/1L  Pour 1 L |  Powder  2/8°C  Non sterile  36 months

» Cat. n°: PM-E1156/10L  Pour 10L

### MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA\* w/o Sodium Bicarbonate






» Cat. n°: PM-E1157/1L  Pour 1 L |  Powder  2/8°C  Non sterile  36 months

» Cat. n°: PM-E1157/10L  Pour 10L


## MEM W/ HANK'S SALTS

*Minimum Essential Medium (MEM) is a modification of Eagle's earlier medium Basal Medium Eagle (BME). This MEM w/ Hanks' Salts formulation contains Hank's salts for use without CO<sub>2</sub>.*

### MEM w/ Hanks' Salts Solution w/o L-Glutamine

» Cat. n°: LM-H1146/500  500ml |  Liquid  2/8°C  Sterile  24 months

### MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-H1147/500  500ml |  Liquid  2/8°C  Sterile  24 months

### MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA\* w/o Sodium Bicarbonate






» Cat. n°: PM-H1156/1L  Pour 1 L |  Powder  2/8°C  Non sterile  36 months

» Cat. n°: PM-H1156/10L  Pour 10L

## MEM $\alpha$ - MODIFICATION

*MEM  $\alpha$  is a modification of Minimum Essential Medium (MEM) that contains non-essential amino acids, sodium pyruvate, thioctic acid, vitamin B12, biotin, and ascorbic acid. MEM  $\alpha$  - Modification can be used with a variety of suspension and adherent mammalian cells, including keratinocytes, primary rat astrocytes, and human melanoma cells.*






### MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides

» Cat. n°: LM-E1148/500  500ml |  Liquid  2/8°C  Sterile  12 months

\*NEAA : Non essentials amino acids

## MEM $\alpha$ - MODIFICATION *(FOLLOWING)*

### MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides

» Cat. n°: LM-E1149/500  500ml  Liquid  2/8°C  Sterile  24 months

### MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate




» Cat. n°: PM-E1155/1L  Pour 1L  
» Cat. n°: PM-E1155/10L  Pour 10L  Powder  2/8°C  Non sterile  36 months

## RPMI 1640 MEDIUM



RPMI are general-purpose enriched media with extensive applications for a vast range of mammalian cells including human myeloma, mouse hybridoma, human leukocytes and B and T lymphocytes. It was originally formulated for suspension cultures and monolayer culture of human leukemic cells.






### RPMI 1640 w/ L-Glutamine

» Cat. n°: LM-R1640/100  100ml  
Cat. n°: LM-R1640/500  500ml  Liquid  2/8°C  Sterile  12 months

### RPMI 1640 w/o L-Glutamine

» Cat. n°: LM-R1641/100  100ml  
» Cat. n°: LM-R1641/500  500ml  Liquid  2/8°C  Sterile  24 months






### RPMI 1640 w/ stable Glutamine

» Cat. n°: LM-R1639/500  500ml  Liquid  2/8°C  Sterile  24 months

### RPMI 1640 w/ L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-R1637/500  500ml  Liquid  2/8°C  Sterile  12 months






### RPMI 1640 w/ stable Glutamine w/ 25 mM HEPES

» Cat. n°: LM-R1638/500  500ml  Liquid  2/8°C  Sterile  24 months


### RPMI 1640 w/o L-Glutamine w/ 25 mM HEPES

» Cat. n°: LM-R1634/500  500ml  Liquid  2/8°C  Sterile  24 months






### RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Sodium Bicarbonate w/20mM HEPES

» Cat. n°: LM-R1636/500  500ml  Liquid  2/8°C  Sterile  24 months

### RPMI 1640 w/o L-Glutamine w/o Folic Acid

» Cat. n°: LM-R1642/500  500ml  Liquid  2/8°C  Sterile  24 months

### RPMI 1640 w/o L-Glutamine w/o Phenol Red

» Cat. n°: LM-R1643/500  500ml  Liquid  2/8°C  Sterile  24 months

### RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-R1644/1L  Pour 1 L  Powder  2/8°C  Non sterile  24 months  
» Cat. n°: PM-R1644/10L  Pour 10L

### RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate

» Cat. n°: PM-R1645/1L  Pour 1 L  Powder  2/8°C  Non sterile  24 months  
» Cat. n°: PM-R1645/10L  Pour 10L

### RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red

» Cat. n°: PM-R1660/1L  Pour 1 L  Powder  2/8°C  Non sterile  24 months  
» Cat. n°: PM-R1660/10L  Pour 10L

### RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red

» Cat. n°: PM-R1646/1L  Pour 1 L  Powder  2/8°C  Non sterile  24 months  
» Cat. n°: PM-R1646/10L  Pour 10L

### RPMI 1640 w/ L- Glutamine w/o Sodium Bicarbonate w/ 25 mM HEPES w/o Phenol Red

» Cat. n°: PM-R1648/1L  Pour 1 L  Powder  2/8°C  Non sterile  24 months  
» Cat. n°: PM-R1648/10L  Pour 10L

### RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose

» Cat. n°: PM-R1651/1L  Pour 1 L  Powder  2/8°C  Non sterile  24 months  
» Cat. n°: PM-R1651/10L  Pour 10L

## SCHNEIDER'S DROSOPHILA MEDIUM



Schneider's Drosophila Medium was developed to encourage the growth of Imaginal Discs excised from *Drosophila melanogaster*, the fruit fly. Schneider's Drosophila Medium also promotes rapid growth of both primary and existing cell cultures derived from *Drosophila spp* and several other dipterans when supplemented with 5-20% heat-inactivated Fetal Bovine Serum.

### Schneider's Drosophila Medium

» Cat. n°: LM-F0702/500

 500ml

 Liquid

 2/8°C

 Sterile

 12 months

## SERUM REDUCED MEDIA (MCDB)



MCDB is formulated to cultivate human microvascular endothelial cells. For other microvascular cells, it is recommended to use the medium with growth factors like EGF or hormones like hydrocortisone.

### MCDB 105


» Cat. n°: LM-M1201/500

 500ml

 Liquid

 2/8°C

 Sterile

 12 months

### MCDB 131

» Cat. n°: LM-M1202/500

 500ml

 Liquid

 2/8°C

 Sterile

 12 months

### MCDB 151


» Cat. n°: LM-M1203/500

 500ml

 Liquid

 2/8°C

 Sterile

 12 months



# SALTS, SALT SOLUTIONS & BUFFERS



The irrigating buffers and salt solutions are sterile physiologically balanced solutions intended for use in the maintenance of mammalian cells where a chemically defined, balanced salt solution provides an environment that will maintain the structural and physiological integrity of cells in vitro.





These buffers and solutions are not cell culture media. They are composed of a phosphate buffer system and sodium chloride to adjust the osmolarity. Sugar and metal ions can be added in the solution for temporary nutrition and the stabilization of cell morphology. For applications where  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  ions interfere with enzyme activity (e.g. Trypsin), use the modified HBSS (Hanks' Balanced Salts Solutions) products.

## DULBECCO'S PHOSPHATE BUFFERED SALINE (DPBS)




DPBS is commonly used in cell enumeration as a diluent, for rinsing cells and as a buffer in many chromatographic procedures. DPBS is also used in FACS (Fluorescence-activated cell sorting) process to wash and resuspend cells during the dissociation process.

### DPBS w/o Calcium w/o Magnesium

- » Cat. n°: LM-S2041/100  100ml
- » Cat. n°: LM-S2041/500  500ml
- » Cat. n°: LM-S2041/1000  1000ml
- » Cat. n°: LM-S2041/10000  10000ml



 Liquid

 Room Temperature

 Sterile

 48 months

### DPBS w/ Calcium w/ Magnesium

- » Cat. n°: LM-S2042/500  500ml
- » Cat. n°: LM-S2042/1000  1000ml



 Liquid

 Room Temperature


 Sterile

 48 months

### DPBS 10X w/o Calcium w/o Magnesium

- » Cat. n°: XC-S2066/100  100ml
- » Cat. n°: XC-S2066/500  500ml


 Liquid

 Room Temperature

 Sterile

 48 months

### DPBS 10X w/ Calcium w/ Magnesium

- » Cat. n°: XC-S2067/500  500ml



 Liquid

 Room Temperature

 Sterile

 48 months

### DPBS w/o Calcium w/o Magnesium

- » Cat. n°: PM-B2092/1L  Pour 1 L
- » Cat. n°: PM-B2092/10L  Pour 10L

 Powder

 Room Temperature

 Non sterile

 48 months

## EARLE'S BALANCED SALT SOLUTIONS (EBSS)



Earle's Balanced Salts Solutions (EBSS) are designed for short-term use in a CO<sub>2</sub> environment.

### EBSS w/o Calcium w/o Magnesium

» Cat. n°: LM-S2031/500

500ml

Liquid

Room Temperature

Sterile

48 months

### EBSS w/ Calcium w/ Magnesium

» Cat. n°: LM-S2032/500

500ml

Liquid

Room Temperature

Sterile

48 months

### EBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate

» Cat. n°: XC-S2060/500

500ml

Liquid

Room Temperature

Sterile

48 months

### EBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate

» Cat. n°: XC-S2061/500

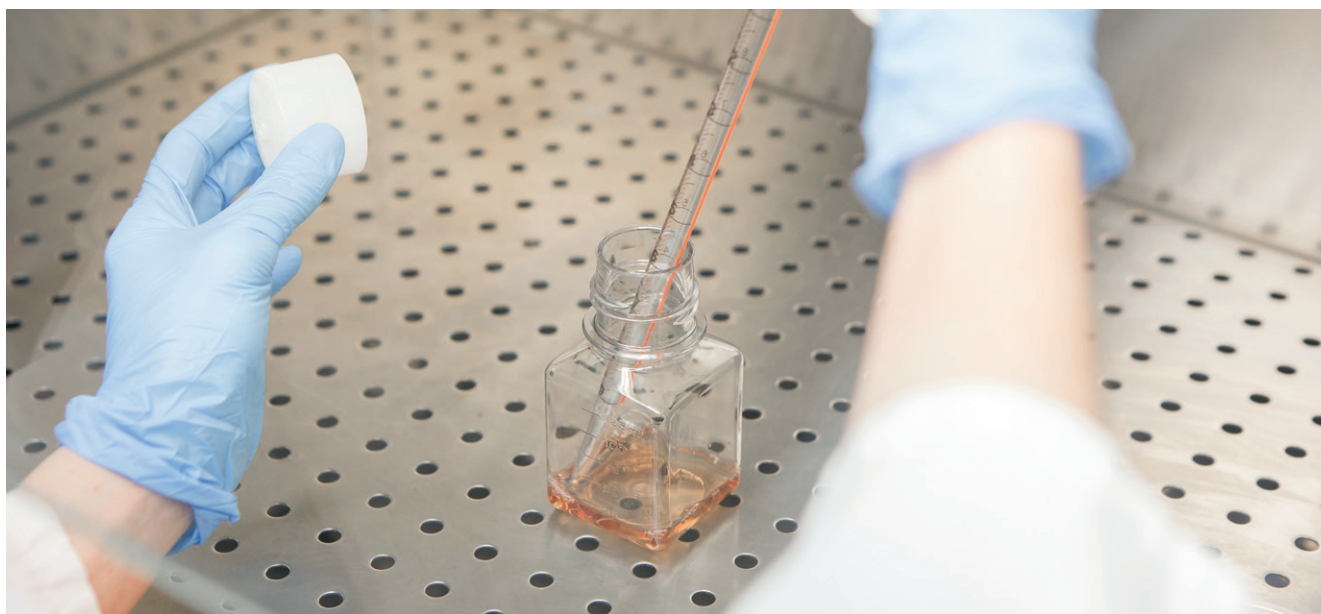
500ml

Liquid

Room Temperature

Sterile

48 months





**biosera**  
p102610

**Dulbecco's Phosphate  
Buffered Saline**

w/o Magnesium, w/o Calcium  
Sterile Filtered

Cat. n° : LM-S2041/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : Room temperature

For in vitro laboratory use only.  
Not for drug, human or veterinary use.



**biosera**  
p102610

**Earle's Balanced Salts 10X**

w/ Calcium w/ Magnesium  
w/o Sodium Bicarbonate  
Sterile Filtered

Cat. n° : XC-S2060/500  
Lot n° : 00000000  
Exp. date : 00/00/0000  
Volume : 500 ml  
Storage : Room temperature

For in vitro laboratory use only.  
Not for drug, human or veterinary use.

## HANK'S BALANCED SALT SOLUTIONS - HBSS



Hanks' Balanced Salts Solutions (HBSS) are designed for short term use under ambient atmospheric conditions - not for CO<sub>2</sub> incubation.



### HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red

» Cat. n° : LM-S2034/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red

» Cat. n° : LM-S2035/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red

» Cat. n° : LM-S2036/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red

» Cat. n° : LM-S2039/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red

» Cat. n° : LM-S2040/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red

» Cat. n° : XC-S2062/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red

» Cat. n° : XC-S2063/500 500ml Liquid Room Temperature Sterile 48 months

### HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red

» Cat. n°: XC-S2064/500  500ml  Liquid  Room Temperature  Sterile  48 months

### HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red

» Cat. n°: XC-S2065/500  500ml  Liquid  Room Temperature  Sterile  48 months

### HBSS w/o Ca w/o Mg w/o Sodium Bicarbonate w/o Phenol Red

» Cat. n°: PM-B2090/1L  Pour 1L  
» Cat. n°: PM-B2090/10L  Pour 10L  Powder  Room Temperature  Non sterile  48 months

### HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red

» Cat. n°: PM-H2037/1L  Pour 1L  
» Cat. n°: PM-H2037/10L  Pour 10L  Powder  Room Temperature  Non sterile  48 months








## HEPES

HEPES is used in many media because it has more buffering capacity than sodium bicarbonate at physiological pH (7.2 - 7.4) at 37°C. Sodium bicarbonate is nutritionally necessary for most cells, so HEPES should be added in addition to, not in place of, sodium bicarbonate. It is commonly added at 10 – 25 mM concentrations (higher levels may cause cytotoxicity).

### HEPES Buffer 1 M

» Cat. n°: LM-S2030/100  100ml  
» Cat. n°: LM-S2030/500  500ml  Liquid  2/8°C  Sterile  36 months

### HEPES, cell culture tested

» Cat. n°: PM-B2093/100  100g  
» Cat. n°: PM-B2093/500  500g  
» Cat. n°: PM-B2093/1000  1 kg  Crystalline  Room Temperature  Non sterile  36 months

## OTHER SALT SOLUTIONS &amp; SALTS

**Sodium Bicarbonate 7.5 %**

» Cat. n°: LM-S2046/100  100ml  Liquid  2/8°C  Sterile  24 months

**Sodium Bicarbonate, cell culture tested**

» Cat. n°: PM-S2011/500  500g  Crystalline  Room Temperature  Non sterile  48 months

**Sodium Chloride Salt Solution 0.85 %**

» Cat. n°: LM-S2047/500  500ml  Liquid  Room Temperature  Sterile  48 months

**Sodium Chloride (for dilution 9 g/l)**

» Cat. n°: PM-S2012/5L  Pour 5L  Powder  Room Temperature  Non sterile  48 months

**Sodium Chloride**

» Cat. n°: PM-S2014/1000  1 kg  Powder  Room Temperature  Non sterile  60 months

**Sodium Pyruvate 100 mM**

» Cat. n°: LM-S2044/100  100ml  
 » Cat. n°: LM-S2044/500  500ml  Liquid  2/8°C  Sterile  48 months

**Potassium Chloride 0.075 M**

» Cat. n°: LM-S2045/100  100ml  
 » Cat. n°: LM-S2045/500  500ml  Liquid  Room Temperature  Sterile  48 months

**Potassium Chloride**

» Cat. n°: PM-S2009/500  500g  Powder  Room Temperature  Non sterile  36 months

**Versene**

» Cat. n°: LM-S2048/100  100ml  Liquid  2/8°C  Sterile  24 months



# ANTIBIOTICS




The use of antibiotics has become a widely used tool in the cell culture field. Most of the antibiotics suppress the growth of microorganisms by blocking an anabolic pathway.

If the antibiotic required is not listed, please contact us.

### Amphotericin B


- » Cat. n° : LM-A4109/50
- » Cat. n° : LM-A4109/100

 50ml  
 100ml

 Frozen

 -20°C

 Sterile

 24 months

### Amphotericin B

- » Cat. n° : PM-A4121/250

 250mg

 Powder

 2/8°C


 Non sterile

 24 months

### Antibiotic-Antimycotic 100X


- » Cat. n° : XC-A4110/20
- » Cat. n° : XC-A4110/100

 20ml  
 100ml

 Frozen

 -20°C

 Sterile

 24 months

### G-418 (Geneticin) Solution

- » Cat. n° : LM-A4115/20
- » Cat. n° : LM-A4115/100

 20ml  
 100ml

 Frozen

 -20°C

 Sterile

 24 months

### Gentamicin Sulfate

- » Cat. n° : PM-A4120/1
- » Cat. n° : PM-A4120/5

 1g  
 5g

 Powder

 2/8°C

 Non sterile

 48 months

### Gentamicin Sulfate 10 mg/ml

- » Cat. n° : LM-A4111/10
- » Cat. n° : LM-A4111/100

 10ml  
 100ml

 Frozen

 -20°C


 Sterile

 24 months

### Gentamicin Sulfate 50 mg/ml


- » Cat. n° : LM-A4112/10
- » Cat. n° : LM-A4112/100

 10ml  
 100ml

 Frozen

 -20°C

 Sterile

 24 months

### Glutamine-Penicillin-Streptomycin 100X

- » Cat. n° : XC-A4114/100

 100ml







 Frozen

 -20°C


 Sterile

 24 months






**Kanamycin Solution 100X**

» Cat. n°: SM-K0271/20	 20ml	 Frozen	 -20°C	 Sterile	 24 months
» Cat. n°: SM-K0271/100	 100ml				

**Nanomycopultine Concentrat 20X**

» Cat. n°: LM-A4116/10	 10ml	 Frozen	 -20°C	 Sterile	 24 months
» Cat. n°: LM-A4116/100	 100ml				







**Penicillin G Sodium Salt**

» Cat. n°: PM-A4218/1	 10 <sup>6</sup> units	 Powder	 2/8°C	 Non sterile	 36 months
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**Penicillin-Streptomycin**

» Cat. n°: LM-A4118/20	 20ml	 Frozen	 -20°C	 Sterile	 24 months
» Cat. n°: LM-A4118/100	 100ml				

**Penicillin-Streptomycin Solution 100X**

» Cat. n°: XC-A4122/20	 20ml	 Frozen	 -20°C	 Sterile	 18 months
» Cat. n°: XC-A4122/100	 100ml				










# OTHER PRODUCTS

## TRYPSIN


Trypsin is a porcine pancreas-derived enzyme that is commonly used for the dissociation and disaggregation of "anchorage-dependent" mammalian cells and tissues.

The concentration of Trypsin necessary to dislodge the cells from their substrate depends on the sensitivity of the cells.


### Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/ Phenol red

» Cat. n°: LM-T1703/100  100ml  Frozen  -20°C  Sterile  24 months



### Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red

» Cat. n°: LM-T1704/100  100ml  Frozen  -20°C  Sterile  24 months






### Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red

» Cat. n°: LM-T1720/100  100ml  Frozen  -20°C  Sterile  24 months  
 » Cat. n°: LM-T1720/500  500ml

### Trypsin 0.25% - EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red

» Cat. n°: LM-T1721/100  100ml  Frozen  -20°C  Sterile  24 months

### Trypsin 2.5 % in HBSS w/o Calcium w/o Magnesium w/o Phenol Red






» Cat. n°: XC-T1726/100  100ml  Frozen  -20°C  Sterile  24 months


### Trypsin-EDTA 1X w/o Calcium w/o Magnesium w/ Phenol Red

» Cat. n°: LM-T1705/100  100ml |  Frozen  -20°C  Sterile  24 months


» Cat. n°: LM-T1705/500  500ml

### Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red






» Cat. n°: LM-T1706/100  100ml |  Frozen  -20°C  Sterile  24 months

» Cat. n°: LM-T1706/500  500ml



### Trypsin-EDTA 10X

» Cat. n°: XC-T1717/100  100ml  Frozen  -20°C  Sterile  24 months






### Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride

» Cat. n°: PM-T1717/100  100g  Powder  -20°C  Non sterile  24 months

### Trypsin 1:250 powder (porcine)

» Cat. n°: PM-T1757/100  100g  Powder  -20°C  Non sterile  12 months

### Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red






» Cat. n°: XC-T1716/100  100ml  Frozen  -20°C  Sterile  24 months

## RECOMBINANT TRYPSIN

Recombinant Trypsin is a genetically engineered protein expressed in *Escherichia coli*.

As such it is totally animal free, free from contaminating enzymes like chymotrypsin as well as protease inhibitors. It is highly stable with a high purity (95%). It is widely used in insulin manufacturing, vaccines and cell culture applications.

### Recombinant Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red

» Cat. n°: LM-T1701/100  100ml  Frozen  -20°C  Sterile  24 months

## ACCUTASE

Accutase is a "ready to use" cell detachment solution of proteolytic and collagenolytic enzymes. Accutase is the "gentler form" of Trypsin. It can replace Trypsin/EDTA for the detachment and dissociation of "anchorage-dependent" cells from surfaces.

It can also be used on suspension cells to reduce clumping in preparation for counting.

### Accutase

» Cat. n°: LM-T1735/100

100ml

Frozen

-20°C

Sterile

24 months

## LYMPHOSEP

Lymphosep is designed for a simple, rapid isolation of lymphocytes from whole blood, once diluted and treated with anti-coagulant or defibrinating agent.



### Lymphosep, Lymphocyte Separation Media

» Cat. n°: LM-T1702/100

100ml

Liquid

Room Temperature

Sterile

24 months

» Cat. n°: LM-T1702/500

500ml

## CELL CULTURE WATER


Cell Culture Water is suitable to dissolve dry powder cell culture media in accordance to the technical data sheet.

Sterility tests include aerobic and anaerobic bacteriological flora, fungus and yeast.

The endotoxin level is less than 0.005EU / mL.

### Cell Culture Water Pyrogen free

» Cat. n° : LM-T1707/100  100ml

» Cat. n° : LM-T1707/500  500ml

» Cat. n° : LM-T1707/1000  1000ml

 Liquid

 Room Temperature


 Sterile

 48 months

## BIOGUARD

Bioguard is a disinfectant solution for incubators, water baths and daily used surfaces in cell culture and molecular biology laboratories.


### Bioguard-S

» Cat. n° : LM-B1010/1000  1000ml

 Liquid

 Room Temperature

 Non sterile

 60 months

### Bioguard-A

» Cat. n° : LM-B1020/100  100ml

 Frozen

 -20°C

 Non sterile

 24 months

## GLUTAMINE

L-Glutamine is an essential amino acid required by virtually all mammalian and insect cells grown in culture. It is a crucial component of many cell culture media and serves as a major energy source for cells in culture. L-Glutamine is very stable as a dry powder and as a frozen solution. However, in liquid media or stock solutions, L-Glutamine can degrade relatively rapidly.

### L-Glutamine 100X, 200mM

» Cat. n°: XC-T1715/100  100ml  Frozen  -20°C  Sterile  24 months

### L-Alanyl-L-Glutamine, stable Glutamine 100X, 200mM

» Cat. n°: XC-T1755/100  100ml  Frozen  -20°C  Sterile  24 months

### L-Glutamine

» Cat. n°: PM-P1410/100  100g  
 » Cat. n°: PM-P1410/1000  1kg  Powder  Room Temperature  Non sterile  24 months

### L-Alanyl-L-Glutamine, stable Glutamine

» Cat. n°: PM-P1432/100  100g  Powder  Room Temperature  Non sterile  36 months

## AMINO ACIDS AND VITAMINS


Our solution of concentrated amino acids, vitamins or non essential amino acids can be added to enrich your basal medium, enabling it to be used as a classical MEM or BME.

The final concentration of the BME or MEM must be 1X.

### MEM Vitamins 100X w/o L-Glutamine


» Cat. n°: XC-E1153/100

 100ml

 Frozen

 -20°C

 Sterile

 24 months

### MEM Non Essential Amino Acids 100X w/o L-Glutamine

» Cat. n°: XC-E1154/100

 100ml

 Liquid

 2/8°C

 Sterile

 24 months

## COLCEMID

Colcemid prevents spindle formation responsible for cell division during the mitosis process, thereby permitting an increase in number of metaphases.

### Colcemid 10 µg/ml in PBS (Demecolcin)

» Cat. n°: LM-T1700/10

 10ml

» Cat. n°: LM-T1700/20

 20ml


» Cat. n°: LM-T1700/50

 50ml

 Liquid

 2/8°C

 Sterile

 24 months


## PHYTOHAEMAGGLUTININ M - PHA-M

PHA-M is a lectin extracted from red kidney beans (*Phaseolus vulgaris*). PHA-M is the mucoprotein form and is a crude extract used for the stimulation of cell proliferation in lymphocyte culture. PHA-M also has a powerful erythroagglutinating property and it was originally used for separating leukocytes from whole blood.

### Phytohaemagglutinin-M (PHA-M) Liquid

» Cat. n°: LM-T1740/5

 5 ml

 Frozen

 -20°C

 Sterile

 36 months

## D-GLUCOSE MONOHYDRATE - DEXTROSE, CELL CULTURE TESTED

D-Glucose Monohydrate is a common natural sugar involved in processes, such as energy production, glycosylation, and formation of glycans that provide structure to cells.

It is involved in a detrimental process in cells called glycation. It is used as a supplement for cell culture and in numerous cellular processes.

### D-Glucose Monohydrate (Dextrose), cell culture tested

» Cat. n°: PM-T1730/500

 500g

 Powder

 Room Temperature

 Non sterile

 48 months

» Cat. n°: PM-T1730/1000

 1 kg



**A**

Accutase	47
Amphotericin B ( <i>liquid</i> )	42
Amphotericin B ( <i>powder</i> )	
Antibiotic-Antimycotic 100X	42

**B**

Bioguard-A	48
Bioguard-S	48
BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	18
BME w/ Earle's Salts w/o L-Glutamine	18
Bovine Plasma w/ Sodium Citrate	14
Bovine Serum (French Origin)	13
Bovine Serum Albumin 30%	15
Bovine Serum Albumin Fatty Acids Free Lyophilised	15
Bovine Serum Albumin Lyophilised pH ~7	15
Bovine Serum Albumin Protease Free Lyophilised	15

**C**

Calf Serum	13
Cell Culture Water Pyrogen free	48
Chicken Serum	14
CMRL w/ L-Glutamine w/o Sodium Bicarbonate	18
Colcemid 10 µg/ml in PBS (Demecolcin)	50

**D - DMEM - DPBS**

D-Glucose Monohydrate (Dextrose), cell culture tested	51
DMEM - F12 w/ L-Glutamine w/ 15 mM HEPES	21
DMEM - F12 w/ L-Glutamine w/ 25 mM HEPES	21
DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM HEPES	21
DMEM - F12 w/ stable Glutamine w/ 15 mM HEPES	21
DMEM - F12 w/o L- Glutamine w/o Hepes	21
DMEM - F12 w/o L-Glutamine w/ 15 mM HEPES	21
DMEM - F12 w/o L-Glutamine w/ 25 mM HEPES	21
DMEM - F12 w/o L-Glutamine w/o HEPES w/o Glucose	21
DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate	19
DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	20

DMEM High Glucose w/ L-Glutamine  
w/o Sodium Bicarbonate w/o Sodium Pyruvate 20

DMEM High Glucose w/ L-Glutamine  
w/o Sodium Pyruvate 19

DMEM High Glucose w/ stable Glutamine  
w/ 25mM HEPES w/o Sodium Pyruvate 19

DMEM High Glucose w/ stable Glutamine  
w/ Sodium Pyruvate 19

DMEM High Glucose w/o L-Glutamine  
w/ 25mM HEPES w/o Sodium Pyruvate 19

DMEM High Glucose w/o L-Glutamine  
w/ Sodium Pyruvate 19

DMEM High Glucose w/o L-Glutamine  
w/o Sodium Pyruvate 19

DMEM Low Glucose w/ L-Glutamine  
w/ Sodium Pyruvate 20

DMEM Low Glucose w/ L-Glutamine  
w/ Sodium Pyruvate w/ 25 mM Hepes 20

DMEM Low Glucose w/ L-Glutamine  
w/o Sodium Bicarbonate w/ Sodium Pyruvate 20

DMEM Low Glucose w/ Stable Glutamine  
w/ Sodium Pyruvate 20

DMEM Low Glucose w/o L-Glutamine  
w/ Sodium Pyruvate 20

Donkey Serum 13

Donor Foal Serum 13

Donor Horse Serum 13

DPBS 10X w/ Calcium w/ Magnesium 34

DPBS 10X w/o Calcium w/o Magnesium 34

DPBS w/ Calcium w/ Magnesium 34

DPBS w/o Calcium w/o Magnesium 34

DPBS w/o Calcium w/o Magnesium 34

## E

EBSS 10X w/ Calcium w/ Magnesium w/o Sodium  
Bicarbonate 35

EBSS 10X w/o Calcium w/o Magnesium w/o Sodium  
Bicarbonate 35

EBSS w/ Calcium w/ Magnesium 35

EBSS w/o Calcium w/o Magnesium 35

## FBS

FBS (Central America, USDA approved) 09

FBS (Chile, USDA approved) 09

FBS (Dominican Republic Origin) 09

FBS (French Origin) 09

FBS (Ireland Origin) 09

FBS (Japan approved) 10

FBS (Mexico, USDA approved) 09

FBS (South Africa) 09

FBS (South America) 09

FBS (Uruguay) 10

FBS (USA Origin) 09

FBS Biopharm 12

FBS Charcoal Stripped 12

FBS Dialysed 12

FBS Embryonic Stem Cells tested 11

FBS Gamma Irradiated 11

FBS Heat Inactivated 11

FBS Iron Supplemented	12
FBS Lipid Depleted	12
FBS Premium	11
FBS Tetracycline free	11
FBS Ultralow Endotoxin	10

## G

G-418 (Geneticin) Solution	42
Gentamicin Sulfate	42
Gentamicin Sulfate 10 mg/ml	42
Gentamicin Sulfate 50 mg/ml	42
Glasgow MEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth	22
Glasgow MEM BHK21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	22
Glutamine-Penicillin-Streptomycin 100X	42
Goat Serum	13
Guinea Pig Serum	14

## H - HAM'S - HBSS

Ham's F10 w/ L-Glutamine	22
Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	23
Ham's F10 w/o L-Glutamine	23
Ham's F12 w/ L-Glutamine	23
Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	23
Ham's F12 w/o L-Glutamine -500ml	23

Ham's F14 w/ 6g/L Glucose w/ 1mg/L ATP	24
HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	38
HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	37
HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	37
HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	38
HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	38
HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	37
HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red	37
HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red	37
HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red	37
HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	37
HEPES Buffer 1 M	38
HEPES, cell culture tested	38
Horse Serum	13

## IMDM

IMDM w/ L- Glutamine w/ 25mM HEPES	24
IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM HEPES	24
IMDM w/ stable Glutamine w/ 25mM HEPES	24
IMDM w/o L-Glutamine w/o HEPES	24

## K

Kanamycin Solution 100X	43
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## L

L-Alanyl-L-Glutamine, stable Glutamine	49
Lamb Serum	14
Leibovitz L15 Medium w/ L-Glutamine	25
Leibovitz L15 Medium w/o L-Glutamine	25
L-Glutamine	49
L-Glutamine 100X, 200mM	49
Lymphosep, Lymphocyte Separation Media	47

## M

McCoy's 5A w/ L-Glutamine	25
McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	25
MCDB 105	31
MCDB 131	31
MCDB 151	31
Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	26
Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate	26
Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	26
Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM HEPES	26

Medium 199 w/ Earle's Salts w/ Stable Glutamine w/ 25 mM HEPES	26
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Medium 199 w/ Earle's Salts w/o L-Glutamine	26
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Medium 199 w/ Hanks' Salts w/ L-Glutamine	26
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MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	28
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MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	29
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MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	29
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MEM Non Essential Amino Acids 100X w/o L-Glutamine	50
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MEM Vitamins 100X w/o L-Glutamine	50
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MEM w/ Earle's Salts w/ L-Glutamine	27
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MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM HEPES	27
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MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	28
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MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	28
---	----

MEM w/ Earle's Salts w/ stable Glutamine	27
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MEM w/ Earle's Salts w/o L-Glutamine	27
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MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM HEPES	27
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MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA	27
--	----

MEM w/ Hanks' Salts Solution w/o L-Glutamine	28
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MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	28
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MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes	28
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Mouse Plasma w/ Lithium Heparin	15
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Mouse Serum	14
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**N**

Nanomycopolitine Concentrat 20 x	43
New Born Calf Serum	13

**P**

Penicillin G Sodium Salt	43
Penicillin-Streptomycin	43
Penicillin-Streptomycin Solution 100X	43
Phytohaemagglutinin M (PHA-M) liquid	51
Pig Serum	14
Potassium Chloride	39
Potassium Chloride 0.075 M	39

**R - RPMI**

Rabbit Plasma w/ EDTA Tetrasodium Salt	15
Rabbit Serum (France Origin)	14
Rat Plasma w/ Lithium Heparin	15
Rat Serum	14
Recombinant Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	46
RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Sodium Bicarbonate w/20mM HEPES	30
RPMI 1640 w/ L- Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	30
RPMI 1640 w/ L-Glutamine	29

RPMI 1640 w/ L-Glutamine w/ 25 mM HEPES	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	30
RPMI 1640 w/ stable Glutamine	29
RPMI 1640 w/ stable Glutamine w/ 25 mM HEPES	29
RPMI 1640 w/o L-Glutamine	29
RPMI 1640 w/o L-Glutamine w/ 25 mM HEPES	29
RPMI 1640 w/o L-Glutamine w/o Folic Acid	30
RPMI 1640 w/o L-Glutamine w/o Phenol Red	30
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	30
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	30

**S**

Schneider's Drosophila Medium	31
Sheep Serum	14
Sodium Bicarbonate 7.5 %	39
Sodium Bicarbonate, cell culture tested	39
Sodium Chloride	39
Sodium Chloride (for dilution 9 g/l)	39
Sodium Chloride Salt Solution 0.85 %	39
Sodium Pyruvate 100 mM	39

# TRYPsin

Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride	46
Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/ Phenol red	45
Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	45
Trypsin 0.25% - EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	45
Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	45
Trypsin 1:250 powder (porcine)	45
Trypsin 2.5 % in HBSS w/o Calcium w/o Magnesium w/o Phenol Red	45
Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	46
Trypsin-EDTA 10X	46
Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	46
Trypsin-EDTA 1X w/o Calcium w/o Magnesium w/ Phenol Red	46

# V

Versene	39
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# biosera

HIGH QUALITY ANIMAL SERA  
MEDIA AND ADDITIVES FOR CELL CULTURE

