

biowest®

The Serum Specialist

General Catalog
6th Edition



HUBERLAB.

committed to science

Your local distributor



Summary

Company Profile	3
Serum	6
Chapter summary	7
About Serum	8
Fetal Bovine Serum - FBS	12
Highest Quality Fetal Bovine Serum - FBS	13
Speciality Fetal Bovine Serum	14
Bovine Serum Albumin - BSA	17
Animal Serum	18
Animal Plasma	19
Human Serum, Plasma & Albumin	19
Cell Culture Media	20
Chapter summary	21
About Cell Culture Media	22-23
Product list	24 - 35
Instructions	36
Salt Solutions, Salts / Buffers	37
Chapter summary	38
About Salt Solutions, Salts / Buffers	39
Product list	39 - 42
Antibiotics	43
Product list	44 - 45
Cell Culture Reagents & other products	46
Product list	47 - 51
Table of addition of Sodium Bicarbonate	52 - 53
Table of addition of L-Glutamine	54
Product Composition	55 - 78
Standard Terms of Sales	79 - 80
Glossary	81
Glossary by alphabetical order	81 - 83
Glossary by catalog N°	84 - 88

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products



Company Profile

Performance

Founded in 1987, Biowest is the European leader in the collection of animal sera, offering the widest range of sera and media for cell culture available on the market. Our products are in use throughout the academic, industrial and government research

sectors, in fields spanning cell biology, genomics, proteomics, virology, immunology, drug discovery and toxicology.

Our people around the world work with a strong commitment to quality, reproducibility, traceability and service.

Combined with our competitive prices and our complete range of origins, these are the reasons for our success.



The quality of our processes and products is internationally recognized, which allows us to accede to the most selective markets such as China and Japan.

Biowest, a real partner for 30 years in scientific breakthroughs...

- **2007** Takahashi K., Tanabe K., Ohnuki M., Narita M., Ichisaka T., Tomoda K., Yamanaka S., **Induction of Pluripotent Stem Cells from Adult Human Fibroblasts by Defined Factors**, *Cell* 131, 861-872. **Nobel Prize 2012 winning article on Stem Cells by Dr Yamanaka.**
- **2009** Funakoshi-Tago M., Tanabe S., Tago K., Itoh H., Mashino T., Sonoda Y., Kasahara T., **Licochalcone A Potently Inhibits Tumor Necrosis Factor α -Induced Nuclear Factor- κ B Activation through the Direct Inhibition of I κ B Kinase Complex Activation**, *Molecular Pharmacology* 76, 745-753.
- **2016** Sanchez-Mejias E., Navarro V., Jimenez S., Sanchez-Mico M., Sanchez-Varo R., Nuñez-Diaz C., Trujillo-Estrada L., Davila JC., Marisa Vizuete, Gutierrez A, Vitorica J., **Soluble phospho-tau from Alzheimer's disease hippocampus drives microglial degeneration**, *Acta Neuropathol.* 132(6), 897-916.
- **2011** Sato Y, Iketani M, Kurihara Y, Yamaguchi M, Yamashita N, Nakamura F, Arie Y., Kawasaki T, Hirata T, Abe T, Kiyonari H, Strittmatter SM, Goshima Y, Takei K., **Cartilage acidic protein-1B (LOTUS), an endogenous Nogo receptor antagonist for axon tract formation**, *Science* 333(6043), 769-73.
- **2002** Cronie L., Defamie N., Dupays L., Theveniau-Ruissy M., Goffin F., Pointis G., Malassine G.A., **Connexin expression and gap junctional intercellular communication in human first trimester trophoblast**, *Mol Hum Reprod.* 11, 1005-13.

... and more

Vertical integration and complete security

Biowest controls the production of the sera throughout the entire process, from the collections around the world, to the final shipment of bottled serum from our warehouse, thus guaranteeing a vertically integrated system of production and documentation.

Using specialized equipment and detailed SOP audits, Biowest ensures the quality at every stage, thereby securing a consistently high quality with low intra-lot variation.

Worldwide sources of sera and widest range of products

Biowest is the ideal partner for both researchers and biopharmaceutical companies. We offer a wide range of geographical origins of bovine sera.

It is important to choose the right serum origin. The choice of origin can be important and may depend on local regulations.

Biowest is your guarantee of the best choice of serum origin and specifications, adjusted to your needs.

Quality system

Biowest guarantees the best quality : We are ISO 9001 and ISO 13485 certified. Biowest is registered by the French Ministry of Agriculture (regulation (EC) n° 1069 / 2009) under the agreement n° FR 49.231.001 for the production of animal sera.

According to the European Regulation EC n° 999/2001, european animals are tested for BSE before the corresponding blood is allowed to be processed.

The EU is a pioneer in BSE testing and individual identification of animals through ear tagging, which ensures the best possible traceability and the lowest BSE risk and makes the EU origin the first choice for researchers in Japan and other selective markets.

Working on your request

With our outstanding knowledge in cell culture products, biowest has the special know-how to support special customer needs. According to the specific aspects of your research, our R&D laboratory can customize our formulations. We can define together every aspect of your custom made product from the beginning to the end.






WHY BIOWEST ?




- ✓ Quality and Service
- ✓ Auditability and Traceability
- ✓ Dedication and Commitment
- ✓ Compliance and Transparency




SERUM

LEGEND

State:  Liquid  Powder  Frozen

Storage and shipping conditions:  Room Temperature  +8°C  -20°C

Shelf life, in months:  24 m

Chapter Summary

About Serum	8
Fetal Bovine Serum - FBS.....	12
Highest Quality Fetal Bovine Serum - FBS	13
Speciality Fetal Bovine Serum	14
Bovine Serum Albumin - BSA	17
Animal Serum.....	18
Animal Plasma.....	19
Human Serum, Plasma & Albumin.....	19

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

About serum

Traceable to the Source

When scientists select their sera, an important factor taken into consideration is the source. Therefore, traceability of the serum is of paramount importance.

Biowest Fetal Bovine Serum is derived from clotted whole blood, aseptically collected from bovine foetuses via cardiac puncture. Each manufactured batch is rigorously controlled, from the collection of the serum and throughout all stages of its treatment and production, through to final packaging on our premises. The product is analyzed, classified, and tested by Biowest before shipped to customers all over the world.

Our Quality System can trace raw materials back to the original supplier and slaughterhouse where they were collected. Biowest's system of vertical integration provides certainty of origin and traceability of all Sera.

Biowest Quality

FBS "quality" is defined in relation to growth promotion characteristics of a specific cell line when cultured in our sera. A batch of FBS which works well for one cell line may not work well for another cell line. Biowest customers can purchase FBS after performance-testing of a sample. There are thousands of different cell lines and no two batches of FBS are identical ; we therefore offer a Sample and Reserve policy. Each batch is delivered with a Certificate of Analysis.

Serum - Batch Reservations

Biowest is pleased to provide free samples of different batches combined with batch reservations during the test period, for up to 4 to 6 weeks. The general sample size for FBS is 50 ml / batch.

After batch testing, the reservation must be confirmed with a first order.

For customers who do not have ample storage facilities, we can store the reserved batch up to 12 months, combined with scheduled shipments.

Technical Support

Biowest's experienced Technical Service Staff is available to answer questions regarding our quality control and all Biowest products.

> We aim to provide timely, courteous and professional service.

Worldwide Sourcing

Biowest offers a wide range of sources from countries with excellent veterinary status. This includes sources from South America, as well as European Union (EU) and United States Department of Agriculture (USDA) approved sources. The choice of the FBS source is determined by import requirements and available supply for the different markets.

Biowest is the ideal partner for academic researchers and biopharmaceutical companies who select FBS based on origin and performance.

European Directorate for the Quality of Medicines

EDQM certified FBS is your guarantee that the origin and the manufacturing process of the product have been certified by the European Directorate for the Quality of Medicines & HealthCare. The EDQM protects and promotes public and animal health in Europe. Its mission is to contribute to the basic

human right of access to good quality medicines and healthcare, and to promote and protect human and animal health, by establishing and providing official standards for the manufacture and quality control of medicines valid in all the signatory states of the Convention for the Elaboration of a European Pharmacopoeia.

Biowest can provide sterile filtration and packaging of serum in its own facility that meets the criteria described in the current version of the product monograph, without the risk of transmitting agents of animal spongiform encephalopathies, n° 1483 of the European Pharmacopoeia. This is certified by the EDQM.

The countries of origin of EDQM certified FBS are Panama, Costa Rica, Uruguay, Paraguay, Brazil, Chile, Mexico, France, Columbia, USA. We are also EDQM certified calf serum from France.

Filtration and Packaging

Raw pooled serum is filtered, through a triple series of 0.1 micron, sterilizing filters for FBS for example. The sterile serum is true-pooled to ensure homogeneity.

Biowest products are packaged via an aseptic filling process for which each step has been carried out to ensure the production of a product meeting the industry sterility standard assurance level of 10^{-4} (i.e., product that demonstrates a bacterial and fungal contamination level of no more than 1 of 10,000 units during the manufacturing process). The highest level of sterility assurance ($\geq 10^{-6}$) cannot be achieved without terminal sterilization. Filtration and dispensing are performed within positive pressure, HEPA-filtered, environmentally controlled rooms.

> **FBS Final Filter Size : Triple 0.1 micron**

Sterility

All sera are tested for the absence of aerobic and anaerobic bacteria, fungi and yeast.

The sterility test procedure is based on the European Pharmacopoeia or US Pharmacopoeia depending on the location of final filtration.

Products are dispensed via an aseptic process to ensure that all Biowest products achieve the highest Sterility Assurance Level. A representative number of samples from each production batch is selected for Sterility testing.

Mycoplasma

Each final product batch is tested for the absence of mycoplasma. The sera are tested for the absence of Mycoplasma utilizing a cell culture assay in Axcell Biotechnologies media by culture method. Our test is accurate within the limits of the detection method used.



Virus Testing

Each batch of serum is tested for adventitious viruses using cell culture techniques.

The serum is tested for:

- Bovine Viral Diarrhoea (BVD)
- Infectious Bovine Rhinotracheitis (IBR)
- Parainfluenza Type 3 (PI3)

Sera are tested for the absence of the indicated viruses by inoculation with GBK cells. The detection of virus is made by indirect immunofluorescence.

Antibody Testing : presence of specific antibodies is detected utilizing an ELISA Assay. The serum from equidea is tested for the presence of Equine Infectious Anemia antibodies.

Cell Culture Testing

Each batch of serum is tested for its ability to support in vitro growth of specific cell lines. Therefore, in addition to verifying that each batch of sera passes our exacting quality control specifications, three important performance criteria are evaluated in our Quality Control Program :

- Growth Promotion
- Cloning Efficiency
- Plating Efficiency

Biological performance is assessed using cell culture medium supplemented with a final concentration of 10% serum. During the test period, cultures are examined microscopically for any morphological abnormalities that may indicate toxic components in the serum.

The following cell lines are utilized to determine growth promotion and functionality :

Cell Line	Type	Species
HELA	Cancer	Human
L929	Fibroblast, Macrophage	Mouse
SP2/0-AG14	Lymphoma	Mouse
MRC-5	Lung	Human

Haemoglobin

A quantitative and colorimetric assay is performed to determine the residual haemoglobin concentration in each product batch.

Endotoxin Test (LAL)

All sera are tested to determine and quantify endotoxin levels. Biowest conducts a chromokinetic (quantitative test) method D of the European Pharmacopoeia.

Total Protein

Protein detection	Methodology
Protein	Biuret Colorimetry
Albumin	Immunoturbidimetry
Globulin	Immunoturbidimetry

Osmolality

Osmolality is determined by a lowered freezing temperature. The osmometer is calibrated using traceable standards.

pH

All pH meters are calibrated daily with standard solutions.

Bovine Spongiform Encephalopathy (BSE) Testing

According to the European Regulation EC n° 999/2001, animals are tested for BSE before the corresponding blood is allowed to be processed. The EU is pioneer in BSE testing and individual identification of animals through ear tagging, which ensures the best possible traceability and the lowest BSE risk and makes the EU origin the first choice of researchers in Japan and other selective markets.

Test	Prionics	Bio-Rad
Method	Western Blot	ELISA

Chemical and Enzyme Profile

Test	Method
Sodium	Indirect Potentiometry
Potassium	Indirect Potentiometry
Chloride	Indirect Potentiometry
Calcium	Arsénazo Colorimetry
Phosphorus	Phosphomolybdate Colorimetry
Alkaline Phosphatase	Colorimetric Kinetic at 37°C
LDH	UV Kinetic at 37°C
SGOT	UV Kinetic at 37°C
SGPT	UV Kinetic at 37°C
Gamma Globulin	Colorimetric Kinetic at 37°C
Cholesterol	Cholesterase Trinder Colorimetry
Bilirubin	DPD / caffeine colorimetry
Glucose	Hexokinase UV
Urea	Urease UV
Creatinine	Colorimetric Kinetic (Jaffé)
Triglycerides	Glycerokinase Trinder Colorimetry
Iron	TPTZ Colorimetry

Storage

All Biowest products have labels indicating storage conditions, batch number, and expiry date.

Optimal product performance is guaranteed, when the product is stored properly. Animal Sera and Plasma are stored at -20°C.

Expiration Date

The shelf life for animal Serum is 60 months, and for animal plasma 48 months.

Intended Use

These products are intended for research applications. It is the end user's responsibility to qualify these products for their specific application.

These products are not for diagnostic use. The safety and efficacy of these products in diagnostic or other clinical uses have not been established.

FETAL BOVINE SERUM - FBS

FBS South America

Cat N° :	S1810-100 S1810-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--


FBS France

Cat N° :	S1820-100 S1820-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS Ireland

Cat N° :	S1780-100 S1780-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--


FBS USA

Cat N° :	S1520-100 S1520-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS Mexico, USDA approved

Cat N° :	S1650-100 S1650-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS Central America, USDA approved

Cat N° :	S1600-100 S1600-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS Chile, USDA approved

Cat N° :	S1560-100 S1560-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS Japan approved

Cat N° :	S1530-100 S1530-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS Uruguay

Cat N° :	S1580-100 S1580-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

FBS South Africa

Cat N° :	S1300-100 S1300-500	Unit/Size :	100 ml 500 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

HIGHEST QUALITY FETAL BOVINE SERUM - FBS

FBS PREMIUM

By using FBS Premium, our customers save time in their daily work: they avoid time consuming batch testing. FBS Premium is a collection of high quality batches, selected on excellent and defined values for essential data:

- Endotoxin level < 5 EU/ml
- Hemoglobin level < 25 mg/100 ml
- Growth promotion > 80% guaranteed **

By respecting those criteria, we ensure you a low batch-to-batch variation.

Avoid losing time in batch testing, use FBS Premium.

FBS South America, Premium

Cat N° :	S181B-100 S181B-500	Unit/Size :	100 ml 500 ml		 -20°C	 40m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

* see page 10

** on 4 Cell lines : SP2/O-Ag14, HELA, L929 and MRC-5

FBS ULTRA LOW

FBS Ultra has a guaranteed endotoxin level of < 0.1 EU/mL and is appropriate to be used for most sensitive cell cultures or other applications that could be disturbed by high endotoxin levels. It has the same high quality standards like our other sera and is triple 0.1µm Filtered and tested for Virus & Mycoplasma.

FBS South America, Ultra-low Endotoxin

Cat N° :	S1860-100 S1860-500	Unit/Size :	100 ml 500 ml		 -20°C	 40m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

- Other packaging available on request.



SPECIALITY FETAL BOVINE SERUM

Heat Inactivation (56°C-30 mn)

This treatment destroys 'complement' and thus avoids interference with some experimentation, in particular immunology tests. It also inactivates viruses and destroys some bacterial contaminants such as the mycoplasma.

FBS South America, Heat inactivated

Cat N° :	S181H-100 S181H-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

- **To order this treatment for any other serum using code H**
please replace the last number of its Cat N° by the letter H

Gamma Irradiation

Gamma irradiated serum minimizes the risk associated with the use of animal products and offers protection against low levels of microbial contaminants. The treatment inactivates viruses of potential concern, such as foot and mouth disease, vesicular stomatitis, rinderpest, peste des petits ruminants, Rift valley fever, bluetongue... while maintaining growth promotion potential. The serum is gamma irradiated on a regular basis at 25 kGy and other doses are available upon request.

FBS South America, Gamma Irradiated

Cat N° :	S181G-100 S181G-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	--------------------------------------	-------------	--------------------------------	--	--	--

- **To order this treatment for any other serum using code G**
Please replace the last number of its Cat N° by the letter G

Charcoal stripping :

Biowest offers Charcoal / Dextran stripped Fetal Bovine serum for researchers requiring low levels of hormones. Charcoal / Dextran stripping reduces the concentration of steroid hormones in Serum such as estradiol, progesterone, cortisol, testosterone, T3 and T4. This Serum is usefull where the endogenous molecules may interfere with experimental research. This serum may show some reduced growth promotion ability for cells requiring the presence of certain hormones (Biblio: Northbio).

FBS South America, Charcoal stripped

Cat N° :	S181F-100 S181F-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

- **To order this treatment for any other serum using code F**
please replace the last number of its Cat N° by the letter F



Dialysation :

The dialysis reduces the concentration of free low molecular weight components such as nucleotides, amino acids, hormones and ions. We use a dynamic filtration method to produce our dialysed serum. The sera are dialysed using a 10 000 molecular weight cut-off membrane.

FBS South America, Dialysed

Cat N° :	S181D-100 S181D-500	Unit/Size :	100 ml 500 ml
----------	--------------------------------------	-------------	--------------------------------



- **To order this treatment for any other serum using code D** please replace the last number of its Cat N° by the letter D

Lipid depletion :

Biowest uses the fumed silica precipitation method for removing lipids. The fumed silica powder is added to the serum. It's well mixed together, after which the solution is centrifuged. The supernatant contains the serum and the lipids are with the silica in the pellet.

FBS South America, Lipid Depleted

Cat N° :	S181L-100 S181L-500	Unit/Size :	100 ml 500 ml
----------	--------------------------------------	-------------	--------------------------------



- **To order this treatment for any other serum using code L** please replace the last number of its Cat N° by the letter L

Iron supplementation :

A 1% Ferric citrate sterile solution is added to the serum at 0,246% (v/v). Then the serum is well mixed. Transferrin is normally 20 to 40 % bound to iron.

FBS South America, Iron Supplemented

Cat N° :	S181R-100 S181R-500	Unit/Size :	100 ml 500 ml
----------	--------------------------------------	-------------	--------------------------------



- **To order this treatment for any other serum using code R** please replace the last number of its Cat N° by the letter R



Exosome depletion

Exosome depleted serum is treated with our proprietary ultrafiltration method. This treatment depletes the microvesicles naturally present in the serum. Biowest guarantees at least $\geq 95\%$ depletion of exosome.

FBS South America, Exosome Depleted

Cat N° :	S181M-100 S181M-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	------------------------	-------------	------------------	---	---	---

● **To order this treatment for any other serum using code M**
please replace the last number of its Cat N° by the letter M

Tetracycline Free

The serum is tested for the presence of Chlorotetracycline, Oxytetracycline and Tetracycline by a liquid chromatography electrospray ionisation tandem mass spectrometry method. The detection limit is < 0.05 mg/l

FBS South America, Tetracycline Free

Cat N° :	S181T-100 S181T-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	------------------------	-------------	------------------	---	---	---

● **To order this treatment for any other serum using code T**
please replace the last number of its Cat N° by the letter T

Embryonic Stem Cells

The serum is tested to confirm a high growth factor content. The cell growth is studied during two passages with mouse embryonic stem cell E14 cell line. The validation criteria are the cell growth and the perfect morphology of the cells.

FBS South America, Embryonic Stem Cells tested

Cat N° :	S181S-100 S181S-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	------------------------	-------------	------------------	---	---	---

● **To order this treatment for any other serum using code S**
please replace the last number of its Cat N° by the letter S


BOVINE SERUM ALBUMIN - BSA

Bovine serum albumin (BSA) is commonly used in cell culture protocols, particularly where protein supplementation is necessary and the other components of serum are unwanted. In cell culture, its main role is as a carrier of small molecules. Because of its negative charge, BSA binds water, salts, fatty acids, vitamins and hormones, then carries these bound components between tissues and cells. The binding capacity also makes BSA an effective scavenger to remove toxic substances, including pyrogens, from the medium.

Albumins are readily soluble in water and can only be precipitated by high concentrations of neutral salts such as ammonium sulfate. The solution stability of BSA is very good (especially if the solutions are stored as frozen aliquots). Albumins are frequently used as stabilizers for other solubilized proteins (e.g., labile enzymes). However, albumin is readily coagulated by heat. When heated to 50°C or above, albumin quite rapidly forms hydrophobic aggregates which do not revert to monomers upon cooling. At somewhat lower temperatures, aggregation is also expected to occur, but at relatively slower rates.

Albumin is used to solubilize lipids, and is also used as a blocking agent in Western blots or ELISA applications.


Bovine Serum Albumin Lyophilised pH ~7

Cat N° :	P6154-100GR P6154-500GR P6154-KG	Unit/Size :	100 g 500 g 1 Kg			
----------	---	-------------	---	---	---	---

Bovine Serum Albumin Protease Free

Cat N° :	P6155-100GR P6155-500GR P6155-KG	Unit/Size :	100 g 500 g 1 Kg			
----------	---	-------------	---	---	---	---

Bovine Serum Albumin Fatty Acids Free

Cat N° :	P6156-100GR P6156-500GR P6156-KG	Unit/Size :	100 g 500 g 1 Kg			
----------	---	-------------	---	---	---	---

Bovine Serum Albumin 30 % liquid

Cat N° :	A0296-1000	Unit/Size :	1000 ml			
----------	-------------------	-------------	----------------	---	---	---


- Other species available on request
- BSA charcoal stripped available on request

ANIMAL SERUM

> All Animal sera can be treated, please inquire about the possibilities

- Other species available on request.
- Other packaging available on request.

Bovine Serum (France Origin)

Cat N° :	S0250-100 S0250-500	Unit/Size :	100 ml 500 ml		 -20°C	 60m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

Calf Serum

Cat N° :	S0400-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

New Born Calf Serum

Cat N° :	S0750-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---


Horse Serum

Cat N° :	S0910-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Donor Horse Serum

Cat N° :	S0900-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Donor Foal Serum

Cat N° :	S0800-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Donkey Serum

Cat N° :	S2170-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Goat Serum

Cat N° :	S2000-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---


Lamb Serum

Cat N° :	S2300-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Sheep Serum

Cat N° :	S2350-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Pig Serum

Cat N° :	S2400-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Chicken Serum

Cat N° :	S0500-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Rabbit Serum

Cat N° :	S2500-500	Unit/Size :	500 ml		 -20°C	 60m
----------	------------------	-------------	---------------	---	---	---

Rat Serum

Cat N° :	S2150-050 S2150-100 S2150-500	Unit/Size :	50 ml 100 ml 500 ml		 -20°C	 60m
----------	--	-------------	--	---	---	---

Mouse Serum

Cat N° :	S2160-050 S2160-100 S2160-500	Unit/Size :	50 ml 100 ml 500 ml		 -20°C	 60m
----------	--	-------------	--	---	---	---

Guinea Pig Serum

Cat N° :	S2450-010 S2450-100	Unit/Size :	10 ml 100 ml		 -20°C	 60 m
----------	--------------------------------------	-------------	-------------------------------	---	---	--

ANIMAL PLASMA


Bovine Plasma w/ Sodium Citrate

Cat N° :	S0260-500	Unit/Size :	500 ml		 -20°C	 48 m
----------	------------------	-------------	---------------	---	---	--

Rat Plasma w/ Lithium Heparin

Cat N° :	S2140-100	Unit/Size :	100 ml		 -20°C	 48 m
----------	------------------	-------------	---------------	---	---	--

Mouse Plasma w/ Lithium Heparin

Cat N° :	S2162-100	Unit/Size :	100 ml		 -20°C	 48 m
----------	------------------	-------------	---------------	---	---	--

- Other species available on request.
- Other packaging available on request.

HUMAN SERUM, PLASMA & ALBUMIN

The **human serum** «off-the-clot» is processed from human blood that has had coagulation induced. It is collected from volunteer donors. Each batch is rigorously controlled and screened for Hepatitis B (HBS), Hepatitis C (HCV) and HIV Type 1 and 2 (HIV1/2).

Our **human sera** are mainly sourced in Europe and Canada.

- *Important : Products of human origin should be considered potentially infectious and handled accordingly.*

Human Serum AB male HIV tested

Cat N° :	S4190-100	Unit/Size :	100 ml		 -20°C	 60 m
----------	------------------	-------------	---------------	---	---	--

Human Serum HIV tested

Cat N° :	S4200-100	Unit/Size :	100 ml		 -20°C	 60 m
----------	------------------	-------------	---------------	---	---	--

Human Plasma pooled

Cat N° :	S4180-100 S4180-500	Unit/Size :	100 ml 500 ml		 -20°C	 48 m
----------	--------------------------------------	-------------	--------------------------------	---	---	--

Human Serum Albumin

Cat N° :	P6140-100GR P6140-500GR P6140-KG	Unit/Size :	100 g 500 g 1 kg		 +8°C +2°C	 48 m
----------	---	-------------	---	---	--	--

> Human Serum is available with treatments (see pages 14-15). Please contact us so we can make your custom made product on request.

CELL CULTURE MEDIA



LEGEND

State:  Liquid

 Powder

 Frozen

Storage and shipping conditions:

 Room Temperature

 +8°C
 +2°C

 -20°C

Shelf life, in months:

 24 m

Chapter Summary

About Cell Culture Media	22
Basal Medium Eagle - BME	24
CMRL 1066	24
Dulbecco's Modified Eagle's Medium - DMEM	25 - 27
DMEM High Glucose	25
DMEM Low Glucose	26
DMEM – Ham's F12	26-27
Glasgow MEM BHK 21	27
Ham's F10 / F-10 Nutrient Medium	28
Ham's F12 / F-12 Nutrient Medium	28
Ham's F14 / F-14 Nutrient Medium	29
Iscove's Modified Dulbecco's Medium - IMDM	29
Leibovitz L15 Medium	30
Mc Coy's 5A Medium	30
Medium 199	31
Minimum Essential Medium - MEM	32 - 23
MEM w/ Earle's Salts	32
MEM w/ Hanks' Salts	33
MEM Alpha modification	33
RPMI 1640 Medium	34 - 35
Schneider's Drosophila Medium	35
Serum Reduced Medium - MCDB	35
Instructions	36

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

About Cell Culture Media

Standard Media

Biowest media formulations are manufactured following original publications, standards set by the Tissue Culture Association and accepted formulations. These formulations may vary from these standards by substituting hydrated, chlorinated and/or the salt forms of certain compounds where such substitutions contribute to improved performance of the product.

Custom Made Formulations

The preparing and production of your personalised cell culture media compositions is another of our services. Give us the list of components needed and the corresponding quantities and we will produce this to your requirements. There may be a short delay for this service.

Quality Assurance

All of the chemicals, raw materials and equipment that we use are of the highest quality. Inorganic chemicals are analytical, ACS, USP, EP, FCC grade or otherwise the finest grade available. All other components are evaluated by standards established by Biowest

All new batches of chemicals are introduced in the process after stringent QC. The water used for media preparation is of the highest quality. It is of WFI quality, produced in several steps including centrifugal distillation and tested for endotoxins. The resistivity is measured in line and all values are monitored and stored by the QC department. The water is always freshly processed and cooled down to 20°C before adding the powder.

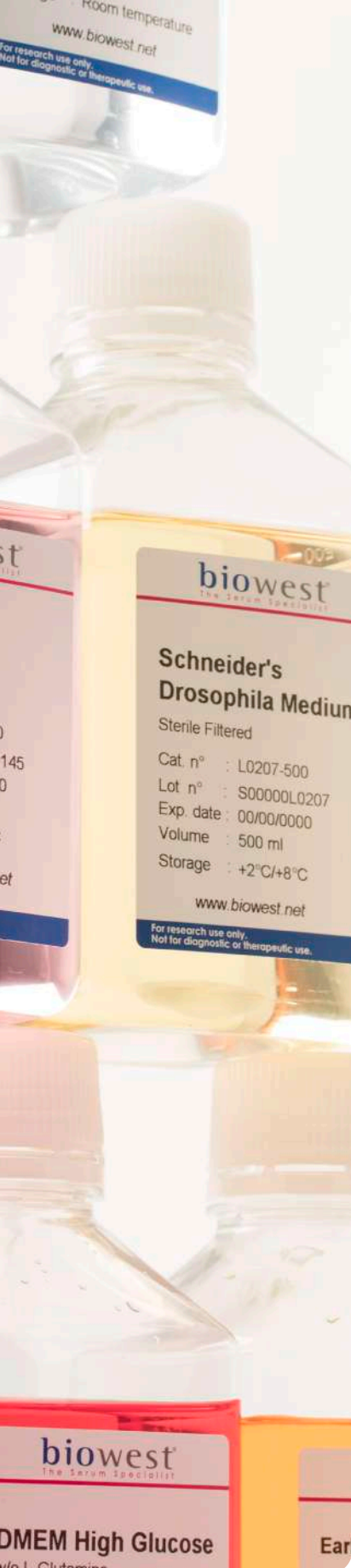
Equipment and conditions

All equipment used for the manufacturing of powdered and liquid media are made of chemical inert materials which will not contaminate the final product. For nearly 30 years, Biowest has supplied the cell culture industry, following strict environmental conditions regarding cleanliness and moisture. Humidity and temperature are monitored constantly to guarantee that all chemicals are ground into fine powder. The liquid media sterilisation is carried out by going through a 0,1 µm pore size sterile filter.

Batch size

Batch sizes for powdered media range from 1 to 10.000 liters, for liquid media from 1 to 1500 liters.





End Product Testing

The powder Media are tested physically for osmotic effects and pH. Osmolality is determined by means of the freezing point method. The chemical composition and the homogeneity of the mixture are controlled by analysis of glucose or sodium in the sample. Endotoxin testing is performed using the Limulus Amoebocyte test. The chromokinetic test is used to verify the quality of the medium.

The liquid Media are tested for the sterility, pH and osmolality. The biological performance test is done on different cell lines, for each type of media. The endotoxin level is also tested by a chromokinetic test.

Storage and Stability

Powdered media must be stored at 2-8°C in their original containers and in dry, dark conditions. Heat, light and humidity can greatly affect the performance of powdered media therefore we recommend that powder be stored correctly if not used entirely. All liquid media must be stored at 2-8°C in the dark.

Advantages and use of powdered tissue culture media

While liquid media are convenient to use, there are several drawbacks which make powdered media also attractive:

1. Long term studies can be carried out using a single batch of powdered medium
2. Storage time higher
3. Reduces the unit costs by 3-10 times
4. Storage space is greatly reduced

The advantages of liquid media

1. Lower labour costs
2. Quality control and functional testing
3. Stock organisation is easier to control

The protocols of all steps during processing and all final test results, reassure the customer that each batch meets the criteria and has been manufactured to the product specifications. The retained samples also allow the testing in long term shelf-life studies, and also control testing in response to customer inquiries.



BASAL MEDIUM EAGLE - BME

Basal Medium Eagle is principally used for diploid or primary cell cultures. It is the simplest of the basal media with all essential components for growth. BME ideally supports cell lines such as HeLa, L-cells and primary mammalian fibroblasts.

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

Cat N° :	L0042-500	Unit/Size :	500 ml		 +8°C -2	 24m
----------	------------------	-------------	---------------	--	---	--

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

Cat N° :	P0030-N1L P0030-N10L	Unit/Size :	For 1L For 10L		 +8°C -2	 48m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

> **Composition available p.55**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

CMRL 1066

CMRL was originally formulated for promoting « L » Earle cells growth.

CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0058-N1L P0058-N10L	Unit/Size :	For 1L For 10L		 +8°C -2	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

> **Composition available p.56**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

DULBECCO'S MODIFIED EAGLE MEDIUM - DMEM

Dulbecco's Modified Eagle Medium is for supporting and maintaining a broad spectrum of mammalian cell types.

DMEM HIGH GLUCOSE

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

Cat N° :	L0101-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0102-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

DMEM High Glucose w/ stable Glutamine
w/ Sodium Pyruvate

Cat N° :	L0103-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0104-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0106-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0100-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0107-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	P0102-N1L P0102-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 36m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

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

Cat N° :	P0103-N1L P0103-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 36m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

> Composition available p.57


- Other packagings available on request
- For your special formulation, please contact us so we can make your custom made Media on request

DMEM LOW GLUCOSE

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

Cat N° :	L0060-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0064-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0065-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

DMEM Low Glucose w/ Stable Glutamine
w/ Sodium Pyruvate

Cat N° :	L0066-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	P0061-N1L	Unit/Size :	For 1L		 +8 +2°C	 36m
----------	------------------	-------------	---------------	---	--	---

> **Composition available p.58**


- Other packagings available on request
- For your special formulation, please contact us so we can make your custom made Media on request

DMEM - HAM'S F12

Studies to determine the nutritional requirements of many cells have been in progress since Eagle's first reports. The major essential nutrients were identified and work became focused on the media requirements of individual cell types. Many media designed for these purposes are now available.

Among the first of these media, developed initially to study hormonal requirements of cells in culture, was a mixture of DMEM medium and Ham's F12 medium, known as DMEM Ham's F12.


DMEM - F12 w/o L- Glutamine
w/o Hepes

Cat N° :	L0090-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

DMEM - F12 w/o L-Glutamine
w/o Hepes w/o Glucose

Cat N° :	L0091-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

DMEM - F12 w/ stable Glutamine
w/ 15 mM Hepes

Cat N° :	L0092-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---



DMEM - F12 w/ L-Glutamine w/ 15 mM Hepes

Cat N° :	L0093-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

DMEM - F12 w/o L-Glutamine w/ 15 mM Hepes

Cat N° :	L0094-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

DMEM - F12 w/ L-Glutamine w/ 25 mM Hepes

Cat N° :	L0095-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

DMEM - F12 w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0096-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	P0095-N1L P0095-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 36m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

> Composition available p.59-60

- Other packagings available on request
- For your special formulation, please contact us so we can make your custom made Media on request

GLASGOW MEM BHK 21

GMEM was originally formulated for growing BHK21 cells. It is intended for use with adherent cell lines.

GMEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth

Cat N° :	L0221-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

GMEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth

Cat N° :	L0222-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

GMEM BHK 21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth

Cat N° :	P0120-N1L P0120-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 36m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

> Composition available p.61

- Glasgow MEM media are only available with a minimum order quantity of 20 bottles x 500 ml.
- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

HAM'S F10 / F-10 NUTRIENT MEDIUM

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° :	L0140-500	Unit/Size :	500 ml		 +8 -2°C	 12m
----------	-----------	-------------	--------	---	--	---

Ham's F10 w/o L-Glutamine

Cat N° :	L0145-500	Unit/Size :	500 ml		 +8 -2°C	 24m
----------	-----------	-------------	--------	---	--	---

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

Cat N° :	P0146-N1L P0146-N10L	Unit/Size :	For 1L For 10L		 +8 -2°C	 36m
----------	-------------------------	-------------	-------------------	---	--	---

> Composition available p.62

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

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 frequently used with dialysed serum, hormones, selenium and other supplements for serum-free cultures. 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.

Ham's F12 w/ L-Glutamine

Cat N° :	L0135-500	Unit/Size :	500 ml		 +8 -2°C	 12m
----------	-----------	-------------	--------	---	--	---

Ham's F12 w/o L-Glutamine

Cat N° :	L0136-500	Unit/Size :	500 ml		 +8 -2°C	 24m
----------	-----------	-------------	--------	---	--	---

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

Cat N° :	P0134-N10L P0134-N1L	Unit/Size :	For 10 L For 1 L		 +8 -2°C	 36m
----------	-------------------------	-------------	---------------------	---	--	---

> Composition available p.63

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

HAM'S F14 / F-14 NUTRIENT MEDIUM

Ham's F14 medium was developed from the 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° :	L0138-500	Unit/Size :	500 ml			
----------	-----------	-------------	--------	---	---	---

> Composition available p.64

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.


ISCOVE'S MODIFIED DULBECCO'S MEDIUM - IMDM

In 1976, Guilbert and Iscove demonstrated that precursor cells of erythrocytes and macrophages could be cultured in a reduced-serum medium supplemented with albumin, transferrin, lecithin, and selenium.

Iscove's medium is a modification of Dulbecco's Modified Eagle's Medium (DMEM) containing selenium, additional amino acids and vitamins, sodium pyruvate, HEPES buffer, and potassium nitrate instead of ferric nitrate.

Further studies demonstrated that Iscove's Medium would support murine B lymphocytes, hemopoietic tissue from bone marrow, B cells stimulated with lipopolysaccharide, T lymphocytes, and a variety of hybrid cells.

IMDM w/ L- Glutamine w/ 25mM Hepes

Cat N° :	L0190-500	Unit/Size :	500 ml			
----------	-----------	-------------	--------	---	---	---

IMDM w/stable Glutamine w/ 25mM Hepes

Cat N° :	L0191-500	Unit/Size :	500 ml			
----------	-----------	-------------	--------	---	---	---

IMDM w/o L-Glutamine w/o Hepes

Cat N° :	L0192-500	Unit/Size :	500 ml			
----------	-----------	-------------	--------	---	---	---

IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes

Cat N° :	P0191-N1L P0191-N10L	Unit/Size :	For 1L For 10L			
----------	-------------------------	-------------	-------------------	---	---	---

> Composition available p.65

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

LEIBOVITZ L-15 MEDIUM

The Leibovitz L-15 media were formulated to promote the cell growth in medium not balanced in CO₂. The formulations were developed with the sodium bicarbonate buffer. The Leibovitz L-15 media are buffered by a complement of salts, free base amino acids and galactose, so they can be used under conditions of free gaseous exchange with the atmosphere. When properly supplemented, L-15 Medium supports established cell lines, such as HEP-2 and LLC-MK2, as well as primary explants of embryonic and adult human tissue. Many viruses also have been successfully cultivated in this medium.

Leibovitz L15 Medium w/o L-Glutamine

Cat N° :	L0300-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

Leibovitz L15 Medium w/ L-Glutamine

Cat N° :	P0350-N1L P0350-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------	-------------	---------------------------	---	---	---

> **Composition available p.66**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

MC COY'S 5A MEDIUM

Mc Coy's media were originally formulated for growth and support of lymphocytes. This final modification produced a medium identical to RPMI 1629. McCoy's 5A media 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 and rat normal or transformed cell types, the most current primary and continuous cell lines.

McCoy's 5A w/ L-Glutamine

Cat N° :	L0210-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	P0390-N1L P0390-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------	-------------	---------------------------	---	---	---

> **Composition available p.67**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.


MEDIUM 199

The longterm cultivation of cells requires additional serum. When properly supplemented, Medium 199 has broad species applicability, particularly for the cultivation of non-transformed cells. It is widely used in virology, vaccine production and in vitro cultivation of primary explants of mouse pancreatic epithelial and rat lens tissues.

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

Cat N° :	L0330-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0355-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0356-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0361-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	P0410-N1L P0410-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------------	-------------	---------------------------------	--	--	--

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

Cat N° :	P0420-N1L P0420-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------------	-------------	---------------------------------	---	---	---

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

Cat N° :	P0425-N1L P0425-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------------	-------------	---------------------------------	---	---	---

> Composition available p.68-69

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.



MINIMUM ESSENTIAL MEDIUM - MEM

Minimum Essential Medium (MEM) with Earle's Balanced Salts is a modification of Eagle's earlier medium Basal Medium Eagle (BME), containing higher concentrations of the essential nutrients. These media have demonstrated the ability to support a variety of normal and transformed cells in culture and contain Earle's Balanced Salts, which make them suitable for use in atmospheres charged with CO₂ gas.

MEM W/ EARLE'S SALTS

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

Cat N° :	L0415-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

MEM w/ Earle's Salts w/ stable Glutamine

Cat N° :	L0416-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0430-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0440-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0444-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---


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

Cat N° :	L0445-500	Unit/Size :	500 ml			
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	P0450-N1L P0450-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------------	-------------	---------------------------------	---	---	---

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

Cat N° :	P0451-N1L P0451-N10L	Unit/Size :	For 1L For 10L			
----------	---------------------------------------	-------------	---------------------------------	---	---	---

> Composition available p.70

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

MEM W/ HANKS' SALTS

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

Cat N° : L0465-500	Unit/Size : 500 ml			
---------------------------	---------------------------	---	---	---

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

Cat N° : L0470-500	Unit/Size : 500 ml			
---------------------------	---------------------------	---	---	---

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

Cat N° : P0515-N1L P0515-N10L	Unit/Size : For 1L For 10L			
--	---	---	---	---

> **Composition available p.71**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

MEM ALPHA MODIFICATION

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

Cat N° : L0475-500	Unit/Size : 500 ml			
---------------------------	---------------------------	--	--	--

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

Cat N° : L0476-500	Unit/Size : 500 ml			
---------------------------	---------------------------	---	---	---

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

Cat N° : P0440-N1L P0440-N10L	Unit/Size : For 1L For 10L			
--	---	---	---	---

> **Composition available p.72**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

RPMI 1640 MEDIUM

RPMI are general purpose enriched media with extensive applications for a broad spectrum of mammalian and hybridoma 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 leukemia cells.


RPMI 1640 w/ L-Glutamine

Cat N° :	L0500-100 L0500-500	Unit/Size :	100 ml 500 ml		 +8 +2°C	 12m
----------	--------------------------------------	-------------	--------------------------------	---	--	---


RPMI 1640 w/o L-Glutamine

Cat N° :	L0501-100 L0501-500	Unit/Size :	100 ml 500 ml		 +8 +2°C	 24m
----------	--------------------------------------	-------------	--------------------------------	---	--	---

RPMI 1640 w/ stable Glutamine

Cat N° :	L0498-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes

Cat N° :	L0495-500	Unit/Size :	500 ml		 +8 +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes

Cat N° :	L0496-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---


RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0490-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	--	---	--

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

Cat N° :	L0492-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0503-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	L0505-500	Unit/Size :	500 ml		 +8 +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

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

Cat N° :	P0860-N1L P0860-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---


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

Cat N° :	P0870-N1L P0870-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

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

Cat N° :	P0880-N1L P0880-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

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

Cat N° :	P0871-N1L P0871-N10L	Unit/Size :	For 1L For 10L		 +8 +2°C	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

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

Cat N° :	P0876-N1L P0876-N10L	Unit/Size :	For 1L For 10L		 +8°C +2°C	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

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

Cat N° :	P0883-N1L P0883-N10L	Unit/Size :	For 1L For 10L		 +8°C +2°C	 24m
----------	---------------------------------------	-------------	---------------------------------	---	--	---

> **Composition available p.73-74**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

SCHNEIDER'S DROSOPHILA MEDIUM

Schneider's Insect medium was developed to support the growth of excised imaginal disks from the fruitfly, *Drosophila melanogaster*. When supplemented with 5-20% heat-inactivated fetal bovine serum, Schneider's medium has been found to support the rapid growth of both primary and established cultures of cells derived from *Drosophila* spp. and several other dipterans.

Schneider's Drosophila Medium

Cat N° :	L0207-500	Unit/Size :	500 ml		 +8°C +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

> **Composition available p.75**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

SERUM REDUCED MEDIA - MCDB

These media were formulated as a reduced serum supplemented medium for the cultivation of human microvascular endothelial cells. For other microvascular cells, it is recommended to be used with growth factors, like EGF or hormones like hydrocortisone.

MCDB 151

Cat N° :	L1203-500	Unit/Size :	500 ml		 +8°C +2°C	 12m
----------	------------------	-------------	---------------	---	--	---

> **Composition available p.76**

- MCDB media are only available with a minimum order quantity of 20 bottles x 500 ml.
- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made Media on request.

Instructions

How to store your product

Store the dry powdered medium at 2-8°C under dry conditions and liquid medium at 2-8°C in the dark.

Deterioration of the powdered medium may be recognized by any or all of the following:

- color range
- granulation / clumping
- insolubility

Deterioration of the following into liquid media:

- pH change
- precipitate or particulate matter throughout the solution
- cloudy appearance
- color change

The nature of additional supplements may affect storage conditions and shelf life of the medium. Product label bears expiration date.

How to prepare your solution from powder media

Powdered Media are extremely hygroscopic and should be protected from atmospheric moisture. The entire content of each package should be closed immediately after opening. Preparing a concentrated solution of medium is not recommended as precipitates may form.

Supplements can be added prior to filtration or introduced aseptically to sterile medium. The nature of the supplements may effect storage conditions and shelf life of the medium.

1. Measure out 90% of initial required volume of water. Water temperature should be 15 – 20 °C.
2. While gently stirring the water, add the powdered medium. Stir until dissolved. Do not heat.
3. Rinse original package with small amount of water to remove all traces of powder. Add to solution in step 2.
4. Supplement the medium according to your needs. For sodium bicarbonate and L-glutamine see pages 52-54
5. While stirring, adjust the pH of the medium to 0,1 – 0,3 pH units below the desired pH since it may rise during filtration. The use of 1N HCl or 1N NaOH is recommended.
6. Add additional water to bring the solution to final volume.
7. Sterilize immediately by filtration using a membrane with a porosity of 0,22 microns or less.
8. Aseptically dispense medium into sterile container.

SALT SOLUTIONS

LEGEND

State:  Liquid

 Powder

 Frozen

Storage and shipping conditions:

 Room Temperature

 +8°C

 +2°C  -20°C

Shelf life, in months:

 24 m

Chapter Summary

About Salt Solutions & Salts / Buffers	39
Dulbecco's Phosphate Buffered Saline - DPBS	39
Earle's Balanced Salt Solutions - EBSS	40
Hanks' Balanced Salt Solutions - HBSS	41
Hepes	42
Other Salt Solutions & Salts	42




About Salt Solutions & Salts / Buffers

The irrigating buffers and salt solutions are sterile physiological 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. The buffers and solutions are used in the first steps of preparing parts of organs and during the dissociation process or for isolation of cell suspensions. Further applications are the intermediate steps for the cultivation of cells like washing, centrifugation, suspending and counting and also many analytical methods or biochemical treatments. For the most part, these solutions should be used to maintain the cells only for minutes or, at the most, a few hours in suspension. These buffers and solutions are not cell culture media.

They are made up of a Phosphate buffer system, sodium chloride to adjust the osmolarity and in some cases sugar for a short time nutrition and stabilisation of morphology. For applications where Ca^{2+} and Mg^{2+} ions interfere with enzyme activity e.g. Trypsin, use the modified buffers w/o Calcium w/o Magnesium.

DULBECCO'S PHOSPHATE BUFFERED SALINE - DPBS

Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium

Cat N° :	L0615-100 L0615-500 L0615-1000	Unit/Size :	100 ml 500 ml 1000 ml			 48 m
----------	--------------------------------------	-------------	-----------------------------	---	---	--

Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium (sterile)

Cat N° :	L0615-C10LS	Unit/Size :	10 L			 48 m
----------	-------------	-------------	------	---	---	--

Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium

Cat N° :	L0625-500 L0625-1000	Unit/Size :	500 ml 1000 ml			 48 m
----------	-------------------------	-------------	-------------------	---	---	--

Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium

Cat N° :	X0515-100 X0515-500	Unit/Size :	100 ml 500 ml			 48 m
----------	------------------------	-------------	------------------	---	---	--

Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium

Cat N° :	X0520-500	Unit/Size :	500 ml			 48 m
----------	-----------	-------------	--------	---	---	--

Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium

Cat N° :	P0750-N1L P0750-N10L	Unit/Size :	For 1L For 10L			 48 m
----------	-------------------------	-------------	-------------------	---	---	--

> Composition available p.77

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made product on request.



EARLE'S BALANCED SALT SOLUTIONS - EBSS

EBSS w/o Calcium w/o Magnesium

Cat N° : **L0601-500**

Unit/Size : **500 ml**



Room Temp

48 m

EBSS w/ Calcium w/ Magnesium

Cat N° : **L0602-500**

Unit/Size : **500 ml**



Room Temp

48 m

EBSS10X w/ Calcium w/ Magnesium
w/o Sodium Bicarbonate

Cat N° : **X0112-500**

Unit/Size : **500 ml**



Room Temp

48 m

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

Cat N° : **X0113-500**

Unit/Size : **500 ml**



Room Temp

48 m

> **Composition available p.77**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made product on request.

HANKS' BALANCED SALT SOLUTIONS - HBSS

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

Cat N° :	L0605-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	L0606-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	L0607-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	L0611-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	L0612-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	X0507-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	X0509-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	X0510-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	X0513-500	Unit/Size :	500 ml			 48 m
----------	------------------	-------------	---------------	---	---	--

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

Cat N° :	P0153-N1L P0153-N10L	Unit/Size :	For 1L For 10L			 48 m
----------	---------------------------------------	-------------	---------------------------------	---	---	--

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

Cat N° :	P0154-N1L P0154-N10L	Unit/Size :	For 1L For 10L			 48 m
----------	---------------------------------------	-------------	---------------------------------	---	---	--

> Composition available p.77

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made product on request.

HEPES

HEPES Buffer 1 M

Cat N° :	L0180-100 L0180-500	Unit/Size :	100 ml 500 ml			
----------	------------------------	-------------	------------------	---	---	---

HEPES, cell culture tested

Cat N° :	P5455-100GR P5455-500GR P5455-KG	Unit/Size :	100 g 500 g 1000 g			
----------	--	-------------	--------------------------	---	---	---

- Other packagings available on request.

OTHER SALT SOLUTIONS & SALTS

Sodium Bicarbonate 7.5 %

Cat N° :	L0680-100	Unit/Size :	100 ml			
----------	-----------	-------------	--------	---	---	---

Sodium Bicarbonate, cell culture tested

Cat N° :	P2060-500GR	Unit/Size :	500 g			
----------	-------------	-------------	-------	---	---	---

Sodium Chloride Salt Solution 0.85 %

Cat N° :	L0640-500	Unit/Size :	500 ml			
----------	-----------	-------------	--------	---	---	---

Sodium Chloride for dilution 9 g/l

Cat N° :	P2064-N5L	Unit/Size :	For 5L			
----------	-----------	-------------	--------	---	---	---

Sodium Chloride

Cat N° :	P2066-KG	Unit/Size :	1000 g			
----------	----------	-------------	--------	---	---	---

Sodium Pyruvate 100 mM

Cat N° :	L0642-100 L0642-500	Unit/Size :	100 ml 500 ml			
----------	------------------------	-------------	------------------	---	---	---

Potassium Chloride 0.075 M

Cat N° :	L0643-100 L0643-500	Unit/Size :	100 ml 500 ml			
----------	------------------------	-------------	------------------	---	---	---

Potassium Chloride

Cat N° :	P2035-500GR	Unit/Size :	500 g			
----------	-------------	-------------	-------	---	---	---

Versene

Cat N° :	L0630-100	Unit/Size :	100 ml			
----------	-----------	-------------	--------	---	---	---

- Other Salts available on request.

> **Composition available p.78**

- Other packagings available on request.
- For your special formulation, please contact us so we can make your custom made product on request.

ANTIBIOTICS

LEGEND

State:  Liquid


 Powder

 Frozen

Storage and shipping conditions:

 Room Temperature

 +8°C
 +2°C

 -20°C

Shelf life, in months:

 24 m

Antibiotics

The use of antibiotics is a helpful tool in the cell culture field or where fluids have to be conserved and prevented from bacterial contamination.

Most of the antibiotics suppress the growth of micro-organisms by blocking an anabolic pathway.

NANOMYCOPULITINE actively kills the bacteria, including mycoplasma, in all three stages of development without interfering with the eukaryotic metabolism.

ANTIBIOTICS

Amphotericin B

Cat N° :	L0009-050 L0009-100	Unit/Size :	50 ml 100 ml		 -20°C	 24m
Cat N° :	P4030-250MG	Unit/Size :	250 mg		 +8°C +2°C	 24m

Antibiotic-Antimycotic 100X

Cat N° :	L0010-020 L0010-100	Unit/Size :	20 ml 100 ml		 -20°C	 24m
----------	--------------------------------------	-------------	-------------------------------	---	---	---

G-418 (Geneticin) Solution

Cat N° :	L0015-020 L0015-100	Unit/Size :	20 ml 100 ml		 -20°C	 24m
----------	--------------------------------------	-------------	-------------------------------	---	---	---

G-418 Sulfate

Cat N° :	P0017-1GR P0017-5GR	Unit/Size :	1 g 5 g		 +8°C +2°C	 36m
----------	--------------------------------------	-------------	--------------------------	---	--	---

Gentamicin Sulfate

Cat N° :	P4020-1GR P4020-5GR	Unit/Size :	1 g 5 g		 +8°C +2°C	 48m
----------	--------------------------------------	-------------	--------------------------	---	--	---

Gentamicin Sulfate 10 mg/ml

Cat N° :	L0011-010 L0011-100	Unit/Size :	10 ml 100 ml		 -20°C	 24m
----------	--------------------------------------	-------------	-------------------------------	---	---	---

Gentamicin Sulfate 50 mg/ml

Cat N° :	L0012-010 L0012-100	Unit/Size :	10 ml 100 ml		 -20°C	 24m
----------	--------------------------------------	-------------	-------------------------------	---	---	---

Glutamine-Penicillin-Streptomycin 100X

Cat N° :	L0014-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

Kanamycin Solution 100X

Cat N° :	L0008-020 L0008-100	Unit/Size :	20 ml 100 ml		 -20°C	 24m
----------	--------------------------------------	-------------	-------------------------------	---	---	---

Nanomycopulitine Concentrat 20 x

Cat N° :	L-X16-010 L-X16-100	Unit/Size :	10 ml 100 ml		 -20°C	 24m
----------	------------------------	-------------	-----------------	---	---	---

Penicillin G Sodium Salt - 1 Million Units

Cat N° :	P0018-1MU	Unit/Size :	1 Million units		 +8 +2°C	 36m
----------	-----------	-------------	-----------------	---	--	---

Penicillin-Streptomycin

Cat N° :	L0018-020 L0018-100	Unit/Size :	20 ml 100 ml		 -20°C	 24m
----------	------------------------	-------------	-----------------	---	---	---

Penicillin-Streptomycin Solution 100X








Cat N° :	L0022-020 L0022-100	Unit/Size :	20 ml 100 ml		 -20°C	 18m
----------	------------------------	-------------	-----------------	---	---	---

- Other Antibiotics and packagings available on request.
- For your special formulation, please contact us so we can make your custom made product on request.



CELL CULTURE REAGENTS & OTHER PRODUCTS


LEGEND

State:	 Liquid	 Powder	 Frozen
Storage and shipping conditions:	 Room Temperature	 +8 °C	 -20 °C
Shelf life, in months:	 24 m		

TRYPSIN

Trypsin is a porcine pancreas-derived enzyme that is commonly used for the dissociation and disaggregation of adherent growing 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° :	L0909-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0910-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	L0931-100 L0931-500	Unit/Size :	100 ml 500 ml		 -20°C	 24m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

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

Cat N° :	L0932-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	X0920-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---


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

Cat N° :	L0930-100 L0930-500	Unit/Size :	100 ml 500 ml		 -20°C	 24m
----------	--------------------------------------	-------------	--------------------------------	---	---	---

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

Cat N° :	L0940-100 L0940-500	Unit/Size :	100 ml 500 ml		 -20°C	 24m
----------	--------------------------------------	-------------	--------------------------------	---	---	---


Trypsin-EDTA 10X

Cat N° :	X0930-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride

Cat N° :	P0940-100GR	Unit/Size :	100 g	 	 -20°C	 24m
----------	--------------------	-------------	--------------	---	---	---

Trypsin 1:250 powder (porcine)

Cat N° :	P5957-100GR	Unit/Size :	100 g	 	 -20°C	 12m
----------	--------------------	-------------	--------------	---	---	---

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

Cat N° :	L0941-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

> **Composition available p.78**

- Other packagings available on request
- For your special formulation, please contact us so we can make your custom made product on request

ACCUTASE




Accutase is a ready to use cell detachment solution developed to meet most demanding requirements for a gentle and effective detachment of adherent cells. It can be used as direct replacement for Trypsin, but has several advantages due to the more gentle detachment of the cells.

Features:

- Gentle & effective cell detachment
- Protection of surface epitopes for e.g. subsequent flow cytometry analysis
- Maximum protection for sensitive cell culture: primary, neuronal or stem cells
- No neutralization required
- No aliquotation needed, stable in the refrigerator for two months after thawing

Accutase combines proteolytic and collagenolytic enzyme activity. As it is non-mammalian and non-bacterial origin, it is an excellent choice for serum free cell cultures. Accutase can be used for the whole range of adherent cells.

Accutase



Cat N° :	L0950-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	--	--	--

- Other packagings available on request

AMINO ACIDS AND VITAMINS

Amino acids, vitamins or non essential amino acids can be added to your basal medium. The final concentration of the MEM or BME should be 1X to enrich it and then this medium is used as a classical MEM or BME.

MEM Vitamins 100X w/o L-Glutamine

Cat N° :	X0556-100	Unit/Size :	100 ml		 -20°C	 24m
----------	------------------	-------------	---------------	---	---	---

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

Cat N° :	X0557-100	Unit/Size :	100 ml		 +8°C +2°C	 24m
----------	------------------	-------------	---------------	---	--	---

- Other packagings available on request
- For your special formulation, please contact us. We can make your custom made product on request
- For specific vitamins and amino acids, please inquire availability, packagings and prices.

D-GLUCOSE MONOHYDRATE - DEXTROSE, CELL CULTURE TESTED

D-Glucose Monohydrate (Dextrose), cell culture tested

Cat N° :	P5030-500GR P5030-KG	Unit/Size :	500 g 1000 g		 Room Temp	 48 m
----------	---------------------------------------	-------------	-------------------------------	---	---	--

- Other packagings available on request

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 is also more labile in cell culture solution than other amino acids.

Dipeptide derivatives of L-Glutamine (Stable Glutamine) prevent the intramolecular cyclization reaction associated with solutions of L-Glutamine. These derivatives are therefore stable in solution and allow the formulation of cell culture media containing L-Glutamine that may be stored at 4°C for extended periods. Solutions containing these derivatives can be even autoclaved without appreciable degradation of the product (30 minutes at 121°C results in <5% loss of the product).

The dipeptide derivatives are metabolized within the cells to yield L-Glutamine plus the second amino acid. This results in more consistent delivery of L-Glutamine to your cells and avoids toxic build-up of ammonia in your cell cultures. This feature can be especially important for ammonia-sensitive cell lines.


L-Glutamine 100X, 200mM

Cat N° :	X0550-100	Unit/Size :	100 ml		 -20°C	 24 m
----------	------------------	-------------	---------------	---	---	--

Glutamine stable 100X, 200mM

Cat N° :	X0551-100	Unit/Size :	100 ml		 -20°C	 24 m
----------	------------------	-------------	---------------	---	---	--

L-Glutamine

Cat N° :	P1012-100GR P1012-KG	Unit/Size :	100 g 1000 g		 Room Temp	 24 m
----------	---------------------------------------	-------------	-------------------------------	---	---	--

L-Alanyl-L-Glutamine, stable Glutamine

Cat N° :	P1031-100GR	Unit/Size :	100 g		 Room Temp	 36 m
----------	--------------------	-------------	--------------	---	---	--

- Other packagings available on request

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

COLCEMID

Colcemid halts the division of cells in mitosis. It prevents the formation of the spindle apparatus responsible for cell division, thereby permitting an accumulation of metaphases.

Colcemid 10 µg/ml in PBS (Demecolcin)

Cat N° :	L0040-010 L0040-020 L0040-050	Unit/Size :	10 ml 20 ml 50 ml			
----------	--	-------------	--	---	---	---

- Other packagings available on request
- For your special formulation, please contact us so we can make your custom made product on request

PHYTOHAEMAGGLUTININ M - PHA-M

Phytohaemagglutinin is a lectin, extracted from red kidney beans, 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

Cat N° :	L3010-005	Unit/Size :	5 ml			
----------	------------------	-------------	-------------	---	---	---

- Other packagings available on request

LYMPHOSEP

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

Lymphosep, Lymphocyte Separation Media

Cat N° :	L0560-100 L0560-500	Unit/Size :	100 ml 500 ml			
----------	--------------------------------------	-------------	--------------------------------	---	---	---

CELL CULTURE WATER

Cell Culture Water Pyrogen free

Cat N° :	L0970-100	Unit/Size :	100 ml
	L0970-500		500 ml
	L0970-1000		1000 ml



BIOGUARD

Bioguard is used in the disinfection of surfaces of laboratory apparatus and of CO2 incubator. Bioguard prevents contamination with and growth of fungi, bacteria, and their spores, mycoplasma and viruses including HIV and Hepatitis B. Bioguard is non-toxic and biodegradable.

we recommend :

- Bioguard-S to keep safe all common work surfaces.
- Bioguard-A to disinfect the water trays of common incubator types and the water required for humidity, potential source of contamination which can disperses in the incubator.

Bioguard - S

Cat N° :	D1010-1000	Unit/Size :	1000 ml
----------	------------	-------------	---------



Bioguard - A

Cat N° :	D1020-100	Unit/Size :	100 ml
----------	-----------	-------------	--------



Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

Table for Addition of Sodium Bicarbonate

Cat N°	Description	Add ^o of Sodium Bicarbonate powder P2060	Add ^o of Sodium Bicarbonate 7,5% solution L0680
		g / L	ml / L
Cell Culture Media			
P0030	BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
P0058	CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
P0061	DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	3,7	49,3
P0095	DMEM F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	1,2	16
P0102	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	3,7	49,3
P0103	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	3,7	49,3
P0120	Glasgow MEM BHK 21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	2,75	36,7
P0134	HAM's F12 w/ L-Glutamine w/o Sodium Bicarbonate	1,176	15,7
P0146	HAM's F10 w/ L-Glutamine w/o Sodium Bicarbonate	1,2	16
P0191	IMDM w/ L- Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	3,024	40,3
P0390	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
P0410	Medium 199 w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	0,35	4,7
P0420	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
P0425	Medium 199 w/ Earles' Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	2,2	29,3
P0440	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
P0450	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	2,2	29,3
P0451	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	2,2	29,3
P0515	MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	0,35	4,7
P0860	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	2	26,7
P0870	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	2	26,7
P0871	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	2	26,7
P0876	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/25 mM Hepes w/o Phenol Red	2	26,7
P0880	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	2	26,7
P0883	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	2	26,7

Cat N°	Description	Add° of Sodium Bicarbonate	
		g / L	ml / L
Salt Solutions			
L0605	Hanks' Balanced Salt Solution w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	0,35	4,7
L0608	Hanks' Balanced Salt Solution w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	0,35	4,7
P0153	Hanks' Balanced Salts w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	0,35	4,7
P0154	Hanks' Balanced Salts w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	0,35	4,7
X0112	Earle's Balanced Salt Solution 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	2,2 For 1X	29,3 For 1X
X0113	Earle's Balanced Salt Solution 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate	2,2 For 1X	29,3 For 1X
X0507	Hanks' Balanced Salt Solution 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	0,35 For 1X	4,7 For 1X
X0509	Hanks' Balanced Salt Solution 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	0,35 For 1X	4,7 For 1X
X0513	Hanks' Balanced Salt Solution 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	0,35 For 1X	4,7 For 1X

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents & other products

Table for Addition of L-Glutamine

Cat n°	Description	addition of L-Glutamine	
		g / L	ml / L
L0042	BME w/ Earle's Salts w/o L-Glutamine	0,292	10
L0064	DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate	0,584	20
L0090	DMEM F12 w/o L-Glutamine w/o Hepes	0,365	12,5
L0091	DMEM F12 w/o L-Glutamine w/o Hepes w/o Glucose	0,365	12,5
L0094	DMEM F12 w/o L-Glutamine w/ 15 mM Hepes	0,365	12,5
L0096	DMEM F12 w/o L-Glutamine w/ 25 mM Hepes	0,365	12,5
L0100	DMEM High Glucose w/o L-Glutamine w/ 25mM Hepes	0,584	20
L0101	DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate	0,584	20
L0106	DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate	0,584	20
L0136	HAM's F12 w/o L-Glutamine	0,146	5
L0145	HAM's F10 w/o L-Glutamine	0,146	5
L0192	IMDM w/o L- Glutamine w/o Hepes	0,584	20
L0222	Glasgow MEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth	0,292	10
L0300	Leibovitz L-15 Medium w/o L-Glutamine	0,3	10,25
L0356	Medium 199 w/ Earles' Salts w/o L-Glutamine	0,1	3,4
L0430	MEM w/ Earle's Salts w/o L-Glutamine w/NEAA	0,292	10
L0440	MEM w/ Earle's Salts w/o L-Glutamine	0,292	10
L0445	MEM w/ Earle's Salts w/o L-Glutamine w/ 25mM Hepes	0,292	10
L0465	MEM w/ Hanks' Salts w/o L-Glutamine	0,292	10
L0470	MEM w/ Hanks' Salts w/o L-Glutamine w/ 25mM Hepes	0,292	10
L0476	MEM Alpha w/o L-Glutamine w/o Ribunucleosides w/o Deoxyribonucleosides	0,292	10
L0490	RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes	0,3	10,25
L0492	RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Sodium Bicarbonate w/ 20mM Hepes	0,3	10,25
L0501	RPMI 1640 w/o L-Glutamine	0,3	10,25
L0503	RPMI 1640 w/o L-Glutamine w/o Folic Acid	0,3	10,25
L0505	RPMI 1640 w/o L-Glutamine w/o Phenol Red	0,3	10,25
P0410	Medium 199 w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	0,1	3,4
P0870	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	0,3	10,25
P0871	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	0,3	10,25
P0875	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	0,3	10,25

Composition

BASAL MEDIUM EAGLE - BME

	L0042 Liquid mg/l	P0030 Powder mg/l	
Amino Acids	L-Arginine Monohydrochloride	21	21
	L-Cystine Dihydrochloride	15,65	15,65
	L-Glutamine	/	292
	L-Histidine	8	8
	L-Isoleucine	26	26
	L-Leucine	26	26
	L-Lysine Monohydrochloride	36,47	36,47
	L-Methionine	7,5	7,5
	L-Phenylalanine	16,5	16,5
	L-Threonine	24	24
	L-Tryptophan	4	4
	L-Tyrosine Disodium Salt Dihydrate	25,95	25,95
L-Valine	23,5	23,5	
Inorganic Salts	Calcium Chloride Dihydrate	265	264
	Magnesium Sulfate Anhydrous	97,67	97,67
	Potassium Chloride	400	400
	Potassium Phosphate Monobasic Anhydrous	/	/
	Sodium Bicarbonate	2200	/
	Sodium Chloride	6800	6800
	Sodium Phosphate Dibasic Anhydrous	/	/
	Sodium Phosphate Monobasic Anhydrous	122	122
Vitamins	Choline Chloride	1	1
	D-Biotin	1	1
	D-Ca Pantothenate	1	1
	Folic Acid	1	1
	Myo-Inositol	2	2
	Nicotinamide (Nicotinic acid amide)	1	1
	Pyridoxal Hydrochloride	1	1
	Riboflavine	0,1	0,1
Thiamine Hydrochloride	1	1	
O.C.*	D-Glucose Anhydrous	1000	1000
	Hepes Free Acid	/	/
	Phenol Red Sodium Salt	11	11

* Other Components

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

CMRL 1066

P0058
Powder
mg/l

Amino Acids	Glycine	50
	L-Alanine	25
	L-Arginine Free Base	57,87
	L-Aspartic Acid	30
	L-Cysteine Monohydrochloride Monohydrate	260
	L-Cystine Dihydrochloride	20
	L-Glutamic Acid	75
	L-Glutamine	100
	L-Histidine Monohydrochloride Monohydrate	20
	L-Hydroxy-L-Proline	10
	L-Isoleucine	20
	L-Leucine	60
	L-Lysine Monohydrochloride	70
	L-Methionine	15
	L-Phenylalanine	25
	L-Proline	40
	L-Serine	25
L-Threonine	30	
L-Tryptophane	10	
L-Tyrosine	40	
L-Valine	25	

Inorganic salts	Calcium Chloride Anhydrous	200
	Magnesium Sulfate Anhydrous	97,69
	Potassium Chloride	400
	Sodium Acetate Anhydrous	50
	Sodium Chloride	6800
	Sodium Phosphate Monobasic Anhydrous	122

Vitamins	2`Deoxyadenosine Monohydrate	10,715
	2`Deoxycytidine Monohydrochloride	11,6
	2`Deoxyguanosine Monohydrate	10
	5-Methyl-2`-Deoxycytidine Hydrochloride	0,1
	Ascorbic Acid	50
	B-NAD	7
	B-NADP + Na	1
	Choline Chloride	0,5
	Coccarboxylase	1
	D-Biotin	0,01
	D-Ca Pantothenate	0,01
	Flavin Adenine Dinucleotide Disodium Salt	0,106
	Folic Acid	0,01
	Myo-Inositol	0,05
	Nicotinamide	0,025
	Nicotinic Acid	0,025
	P-Aminobenzoic Acid (PABA)	0,05
Pyridoxal Hydrochloride	0,025	
Pyridoxine Hydrochloride	0,025	
Riboflavin	0,01	
Thiamine Hydrochloride	0,01	

O.C.*	Cholesterol	0,2
	Coenzyme A,Na	2,5
	D-Glucose Anhydrous	1000
	D-Glucuronic Acid + Na	3,88
	L-Glutathione Reduced	10
	Phenol Red Sodium Salt	21,24
	Thymidine	10
	Tween 80	5
Uridine-5-Triphosphate + Na	1	

* Other Components

DMEM High
Glucose

	L0100	L0101	L0102	L0103	L0104	L0106	L0107	P0102	P0103	
	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Powder	Powder	
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Amino Acids	Glycine	30	30	30	30	30	30	30	30	Serum
	L-Alanyl-L-Glutamine	/	/	/	862	/	/	/	/	
	L-Arginine Monohydrochloride	84	84	84	84	84	84	84	84	
	L-Cystine Dihydrochloride	62,6	62,6	62,6	62,6	62,6	62,6	62,6	62,6	
	L-Glutamine	/	/	584	/	584	/	/	/	
	L-Histidine Monohydrochloride Monohydrate	42	42	42	42	42	42	42	42	Cell Culture Media
	L-Isoleucine	105	105	105	105	105	105	105	105	
	L-Leucine	105	105	105	105	105	105	105	105	
	L-Lysine Monohydrochloride	146	146	146	146	146	146	146	146	
	L-Methionine	30	30	30	30	30	30	30	30	
	L-Phenylalanine	66	66	66	66	66	66	66	66	
	L-Serine	42	42	42	42	42	42	42	42	Salt Solutions
	L-Threonine	95	95	95	95	95	95	95	95	
	L-Tryptophan	16	16	16	16	16	16	16	16	
	L-Tyrosine Disodium Salt Dihydrate	103,79	103,79	103,79	103,79	103,79	103,79	103,79	103,79	103,79
L-Valine	94	94	94	94	94	94	94	94	94	
Inorganic Acids	Calcium Chloride Dihydrate	265	265	265	265	265	265	265	265	Antibiotics
	Ferric Nitrate Nonahydrate	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1	
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67	97,67	97,67	97,67	97,67	97,67	
	Potassium chloride	400	400	400	400	400	400	400	400	
	Sodium Bicarbonate	3700	3700	3700	3700	3700	3700	3700	/	/
	Sodium Chloride	4400	6400	6400	6400	6400	6400	4400	6400	6400
	Sodium Phosphate Monobasic Anhydrous	109	109	109	109	109	109	109	109	109
Vitamins	Choline Chloride	4	4	4	4	4	4	4	4	
	D-Ca Pantothenate	4	4	4	4	4	4	4	4	
	Folic Acid	4	4	4	4	4	4	4	4	
	Myo-Inositol	7,2	7,2	7,2	7,2	7,2	7,2	7,2	7,2	
	Nicotinamide	4	4	4	4	4	4	4	4	
	Pyridoxal Hydrochloride	4	4	4	4	4	4	4	4	
	Riboflavin	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
	Thiamine Hydrochloride	4	4	4	4	4	4	4	4	4
O.C.*	D-Glucose Anhydrous	4500	4500	4500	4500	4500	4500	4500	4500	
	Hepes Free Acid	5958	/	/	/	/	/	5958	/	/
	Phenol Red Solution Salt	15,9	15,9	15,9	15,9	15,9	15,9	15,9	15,9	
	Sodium Pyruvate	/	/	/	110	110	110	/	110	/

* Other Components

DMEM Low Glucose

	L0060 Liquid mg/l	L0064 Liquid mg/l	L0065 Liquid mg/l	L0066 Liquid mg/l	P0061 Powder mg/l	
Amino Acids	Glycine	30	30	30	30	
	L-Alanyl-L-Glutamine (Glutamine Stable)	/	/	/	862	
	L-Arginine Monohydrochloride	84	84	84	84	
	L-Cystine Dihydrochloride	62,6	62,6	62,6	62,6	
	L-Glutamine	584	/	584	/	584
	L-Histidine Monohydrochloride Monohydrate	42	42	42	42	42
	L-Isoleucine	105	105	105	105	105
	L-Leucine	105	105	105	105	105
	L-Lysine Monohydrochloride	146	146	146	146	146
	L-Methionine	30	30	30	30	30
	L-Phenylalanine	66	66	66	66	66
	L-Serine	42	42	42	42	42
	L-Threonine	95	95	95	95	95
	L-Tryptophan	16	16	16	16	16
L-Tyrosine Disodium Salt Dihydrate	103,79	103,79	103,79	103,79	103,79	
L-Valine	94	94	94	94	94	
Inorganic Salts	Calcium Chloride Anhydrous	/	/	/	/	200
	Calcium Chloride Dihydrate	265	265	265	265	/
	Ferric Nitrate Nonahydrate	0,1	0,1	0,1	0,1	0,1
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67	97,67	97,67
	Potassium chloride	400	400	400	400	400
	Sodium Bicarbonate	3700	3700	3700	3700	/
	Sodium Chloride	6400	6400	4400	6400	6400
	Sodium Phosphate Monobasic Anhydrous	109	109	109	109	109
Vitamins	Choline Chloride	4	4	4	4	4
	D-Ca Pantothenate	4	4	4	4	4
	Folic Acid	4	4	4	4	4
	Myo-Inositol	7,2	7,2	7,2	7,2	7,2
	Nicotinamide	4	4	4	4	4
	Pyridoxal Hydrochloride	4	4	4	4	4
	Riboflavin	0,4	0,4	0,4	0,4	0,4
	Thiamine Hydrochloride	4	4	4	4	4
O.C.*	D-Glucose Anhydrous	1000	1000	1000	1000	1000
	Hepes Free Acid	/	/	5958	/	/
	Phenol Red Solution Salt	15,9	15,9	15,9	15,9	15,9
	Sodium Pyruvate	110	110	110	110	110

* Other Components

DMEM Ham's F12

	L0090	L0091	L0092	L0093	L0094	L0095	L0096	P0095	
	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Powder	
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Amino Acids	Glycine	18,75	18,75	18,75	18,75	18,75	18,75	18,75	
	L-Alanine	4,45	4,45	4,45	4,45	4,45	4,45	4,45	
	L-Alanyl-L-Glutamine	/	/	365	/	/	/	/	
	L-Arginine Monohydrochloride	147,5	147,5	147,5	147,5	147,5	147,5	147,5	
	L-Asparagine Monohydrate	7,5	7,5	7,5	7,5	7,5	7,5	7,5	
	L-Aspartic Acid	6,65	6,65	6,65	6,65	6,65	6,65	6,65	
	L-Cysteine Monohydrochloride Monohydrate	17,56	17,56	17,56	17,56	17,56	17,56	17,56	
	L-Cystine Dihydrochloride	31,29	31,29	31,29	31,29	31,29	31,29	31,29	
	L-Glutamic Acid	7,35	7,35	7,35	7,35	7,35	7,35	7,35	
	L-Glutamine	/	/	/	365	/	365	/	365
	L-Histidine Monohydrochloride Monohydrate	31,48	31,48	31,48	31,48	31,48	31,48	31,48	31,48
	L-Isoleucine	54,47	54,47	54,47	54,47	54,47	54,47	54,47	54,47
	L-Leucine	59,05	59,05	59,05	59,05	59,05	59,05	59,05	59,05
	L-Lysine Monohydrochloride	91,25	91,25	91,25	91,25	91,25	91,25	91,25	91,25
	L-Methionine	17,24	17,24	17,24	17,24	17,24	17,24	17,24	17,24
	L-Phenylalanine	35,48	35,48	35,48	35,48	35,48	35,48	35,48	35,48
	L-Proline	17,25	17,25	17,25	17,25	17,25	17,25	17,25	17,25
	L-Serine	26,25	26,25	26,25	26,25	26,25	26,25	26,25	26,25
	L-Threonine	53,45	53,45	53,45	53,45	53,45	53,45	53,45	53,45
	L-Tryptophan	9,02	9,02	9,02	9,02	9,02	9,02	9,02	9,02
L-Tyrosine Disodium Salt Dihydrate	55,79	55,79	55,79	55,79	55,79	55,79	55,79	55,79	
L-Valine	52,85	52,85	52,85	52,85	52,85	52,85	52,85	52,85	
Inorganic Salts	Calcium Chloride Dihydrate	154,5	154,5	154,5	154,5	154,5	154,5	154,5	
	Cupric Sulfate Pentahydrate	0,0013	0,0013	0,0013	0,0013	0,0013	0,0013	0,0013	
	Ferric Nitrate Nonahydrate	0,05	0,05	0,05	0,05	0,05	0,05	0,05	
	Ferrous Sulfate Heptahydrate	0,417	0,417	0,417	0,417	0,417	0,417	0,417	
	Magnesium Chloride Anhydrous	/	/	/	/	/	/	28,64	
	Magnesium Chloride Hexahydrate	61,2	61,2	61,2	61,2	61,2	61,2	/	
	Magnesium Sulfate Anhydrous	48,84	48,84	48,84	48,84	48,84	48,84	48,84	
	Potassium chloride	311,8	311,8	311,8	311,8	311,8	311,8	311,8	
	Sodium Bicarbonate	2438	2438	1200	1200	1200	1200	/	
	Sodium Chloride	6996	6996	6996	6996	6996	6996	6996	
	Sodium Phosphate Dibasic Anhydrous	71,02	71,02	71,02	71,02	71,02	71,02	71,02	
	Sodium Phosphate Monobasic Anhydrous	54,3	54,3	54,3	54,3	54,3	54,3	54,3	
Zinc Sulfate Heptahydrate	0,432	0,432	0,432	0,432	0,432	0,432	0,432		

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents & other products

DMEM Ham's F12
(following)

	L0090	L0091	L0092	L0093	L0094	L0095	L0096	P0095
	<i>Liquid</i>	<i>Liquid</i>	<i>Liquid</i>	<i>Liquid</i>	<i>Liquid</i>	<i>Liquid</i>	<i>Liquid</i>	<i>Powder</i>
	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>
Vitamins	Choline Chloride	8,98	8,98	8,98	8,98	8,98	8,98	8,98
	D-Biotin	0,0035	0,0035	0,0035	0,0035	0,0035	0,0035	0,0035
	D-Ca Pantothenate	2,24	2,24	2,24	2,24	2,24	2,24	2,24
	Folic Acid	2,66	2,66	2,66	2,66	2,66	2,66	2,66
	Myo-Inositol	12,6	12,6	12,6	12,6	12,6	12,6	12,6
	Nicotinamide	2,02	2,02	2,02	2,02	2,02	2,02	2,02
	Pyridoxal Hydrochloride	2	2	/	2	2	2	2
	Pyridoxine Hydrochloride	0,031	0,031	2,031	0,031	0,031	0,031	0,031
	Riboflavin	0,219	0,219	0,219	0,219	0,219	0,219	0,219
	Thiamine Hydrochloride	2,17	2,17	2,17	2,17	2,17	2,17	2,17
Vitamin B12	0,68	0,68	0,68	0,68	0,68	0,68	0,68	
O.C.*	D-Glucose Anhydrous	3151	/	3151	3151	3151	3151	3151
	Hepes Free Acid	/	/	3574,5	3574,5	3574,5	5957	3574,5
	Hypoxanthine	2,1	2,1	2,1	2,1	2,1	2,1	2,1
	Linoleic acid	0,042	0,042	0,042	0,042	0,042	0,042	0,042
	Phenol Red Sodium Salt	8,63	8,63	8,63	8,63	8,63	8,63	8,63
	Putrescine+2HCL	0,081	0,081	0,081	0,081	0,081	0,081	0,081
	Sodium Pyruvate	55	55	55	55	55	55	55
	Thioctic Acid	0,105	0,105	0,105	0,105	0,105	0,105	0,105
Thymidine	0,365	0,365	0,365	0,365	0,365	0,365	0,365	

* Other Components

Glasgow MEM BHK 21 (GMEM)

	L0221 <i>Liquid</i> mg/l	L0222 <i>Liquid</i> mg/l	P0120 <i>Powder</i> mg/l	
Amino Acids	L-Arginine Monohydrochloride	42	42	42
	L-Cystine Dihydrochloride	31,29	31,29	31,29
	L-Glutamine	292	/	292
	L-Histidine Monohydrochloride Monohydrate	21	21	21
	L-Isoleucine	52,4	52,4	52,4
	L-Leucine	52,4	52,4	52,4
	L-Lysine Monohydrochloride	73,1	73,1	73,1
	L-Methionine	15	15	15
	L-Phenylalanine	33	33	33
	L-Threonine	47,6	47,6	47,6
	L-Tryptophan	8	8	8
	L-Tyrosine Disodium Salt Dihydrate	52,19	52,19	52,19
L-Valine	46,8	46,8	46,8	
Inorganic Salts	Calcium Chloride Anhydrous	/	/	200
	Calcium Chloride Dihydrate	265	265	/
	Ferric Nitrate Nonahydrate	0,1	0,1	0,1
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67
	Potassium Chloride	400	400	400
	Sodium Bicarbonate	2750	2750	/
	Sodium Chloride	6400	6400	6400
	Sodium Phosphate Monobasic Anhydrous	107,8	107,8	/
Sodium Phosphate Monobasic Dihydrate	/	/	124	
Vitamins	Choline Chloride	2	2	2
	D-Ca Pantothenate	2	2	2
	Folic Acid	2	2	2
	Myo-Inositol	3,6	3,6	3,6
	Nicotinamide	2	2	2
	Pyridoxal Hydrochloride	2	2	2
	Riboflavin	0,2	0,2	0,2
Thiamine Hydrochloride	2	2	2	
O.C.*	D-Glucose Anhydrous	4500	4500	4500
	Phenol Red Sodium Salt	16	16	16

* Other Components

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

Ham's F10 (F10 Nutrient Medium)

		L0140	L0145	P0146
		<i>Liquid</i> mg/l	<i>Liquid</i> mg/l	<i>Powder</i> mg/l
Amino Acids	Glycine	7,51	7,51	7,51
	L-Alanine	9	9	9
	L-Arginine Monohydrochloride	211	211	211
	L-Asparagine Monohydrate	15,01	15,01	15,01
	L-Aspartic Acid	13,3	13,3	13,3
	L-Cysteine Monohydrochloride Monohydrate	35	35	35
	L-Glutamic Acid	14,7	14,7	14,7
	L-Glutamine	146	/	146
	L-Histidine Monohydrochloride Monohydrate	21	21	21
	L-Isoleucine	2,6	2,6	2,6
	L-Leucine	13,1	13,1	13,1
	L-Lysine Monohydrochloride	29,3	29,3	29,3
	L-Methionine	4,48	4,48	4,48
	L-Phenylalanine	4,96	4,96	4,96
	L-Proline	11,5	11,5	11,5
	L-Serine	10,5	10,5	10,5
	L-Threonine	3,57	3,57	3,57
L-Tryptophan	0,6	0,6	0,6	
L-Tyrosine Disodium Salt Dihydrate	2,61	2,61	2,61	
L-Valine	3,5	3,5	3,5	
Inorganic Salts	Calcium Chloride Dihydrate	44,1	44,1	44,1
	Cupric Sulfate Pentahydrate	0,0025	0,0025	0,0025
	Ferrous Sulfate Heptahydrate	0,834	0,834	0,834
	Magnesium Sulfate Anhydrous	74,64	74,64	74,64
	Potassium Chloride	285	285	285
	Sodium Phosphate Monobasic Anhydrous	83	83	83
	Sodium Bicarbonate	1200	1200	/
	Sodium Chloride	7400	7400	7400
	Sodium Phosphate Dibasic Anhydrous	153,7	153,7	153,7
	Zinc Sulfate Heptahydrate	0,0288	0,0288	0,0288
Vitamins	Choline Chloride	0,698	0,698	0,698
	D-Biotin	0,024	0,024	0,024
	D-Ca Pantothenate	0,715	0,715	0,715
	Folic Acid	1,32	1,32	1,32
	Myo-Inositol	0,541	0,541	0,541
	Nicotinamide	0,615	0,615	0,615
	Pyridoxine Hydrochloride	0,206	0,206	0,206
	Riboflavin	0,376	0,376	0,376
	Thiamine Hydrochloride	1	1	1
	Vitamin B12	1,36	1,36	1,36
O.C.*	D-Glucose Anhydrous	1100	1100	1100
	Hepes Free Acid	/	/	/
	Hypoxanthine	4,08	4,08	4,08
	Phenol Red Solution Salt	1,3	1,3	1,3
	Sodium Pyruvate	110	110	110
	Thioctic Acid	0,21	0,21	0,21
	Thymidine	0,73	0,73	0,73

* Other Components

Ham's F12 (F-12 Nutrient Medium)

	L0135 <i>Liquid</i> mg/l	L0136 <i>Liquid</i> mg/l	P0134 <i>Powder</i> mg/l	
Amino Acids	Glycine	7,51	7,51	7,51
	L-Alanine	9	9	9
	L-Arginine Monohydrochloride	211	211	211
	L-Asparagine Monohydrate	15,01	15,01	15,01
	L-Aspartic Acid	13,3	13,3	13,3
	L-Cysteine Monohydrochloride Monohydrate	35	35	35
	L-Glutamic Acid	14,7	14,7	14,7
	L-Glutamine	146	/	146
	L-Histidine Monohydrochloride Monohydrate	20,96	20,96	20,96
	L-Isoleucine	3,94	3,94	3,94
	L-Leucine	13,1	13,1	13,1
	L-Lysine Monohydrochloride	36,5	36,5	36,5
	L-Methionine	4,48	4,48	4,48
	L-Phenylalanine	4,96	4,96	4,96
	L-Proline	34,5	34,5	34,5
	L-Serine	10,5	10,5	10,5
L-Threonine	11,9	11,9	11,9	
L-Tryptophan	2,04	2,04	2,04	
L-Tyrosine Disodium Salt Dihydrate	7,78	7,78	7,78	
L-Valine	11,7	11,7	11,7	
Inorganic Salts	Calcium Chloride Dihydrate	44,1	44,1	44,1
	Cupric Sulfate Pentahydrate	0,0025	0,0025	0,0025
	Ferrous Sulfate Heptahydrate	0,834	0,834	0,834
	Magnesium Sulfate Anhydrous	/	/	57,22
	Magnesium Chloride Hexahydrate	123	123	/
	Potassium Chloride	224	224	224
	Sodium Bicarbonate	1176	1176	/
	Sodium Chloride	7599	7599	7599
Sodium Phosphate Dibasic Anhydrous	142,04	142,04	142,04	
Zinc Sulfate Heptahydrate	0,863	0,863	0,863	
Vitamins	Choline Chloride	13,96	13,96	13,96
	D-Biotin	0,0073	0,0073	0,0073
	D-Ca Pantothenate	0,48	0,48	0,48
	Folic Acid	1,32	1,32	1,32
	Myo-Inositol	18	18	18
	Nicotinamide	0,037	0,037	0,037
	Pyridoxine Hydrochloride	0,062	0,062	0,062
	Riboflavin	0,038	0,038	0,038
	Thiamine Hydrochloride	0,34	0,34	0,34
Vitamin B12	1,36	1,36	1,36	
O.C.*	D-Glucose Anhydrous	1802	1802	1802
	Hypoxanthine	4,08	4,08	4,08
	Linoleic Acid	0,084	0,084	0,084
	Phenol Red Solution Salt	1,3	1,3	1,3
	Putrescine+2HCL	0,161	0,161	0,161
	Sodium Pyruvate	110	110	110
	Thioctic Acid	0,21	0,21	0,21
	Thymidine	0,73	0,73	0,73

* Other Components

Ham's F14 (F-14 Nutrient Medium)

L0138
Liquid
mg/l

Amino Acids	Glycine	15
	L-Alanine	17,8
	L-Arginine Monohydrochloride	422
	L-Asparagine Anhydrous	26
	L-Aspartic Acid	26,6
	L-Cysteine Monohydrochloride Monohydrate	72
	L-Glutamic Acid	29,4
	L-Histidine Monohydrochloride Monohydrate	42
	L-Isoleucine	8
	L-Leucine	26
	L-Lysine Monohydrochloride	73
	L-Methionine	8,94
	L-Phenylalanine	10
	L-Proline	69
L-Serine	21	
L-Threonine	24	
L-Tryptophan	4	
L-Tyrosine	10,8	
L-Valine	23,4	
Inorganic Salts	Calcium Chloride Dihydrate	294
	Cupric Sulfate Pentahydrate	0,0025
	Ferrous Sulfate Heptahydrate	0,834
	Magnesium Chloride Hexahydrate	172,9
	Magnesium Sulfate Heptahydrate	37
	Potassium Chloride	372,8
	Sodium Bicarbonate	1974
	Sodium Chloride	7599
Sodium Phosphate Dibasic Anhydrous	141,8	
Zinc Sulfate Heptahydrate	0,144	

Vitamins	Ascorbic Acid	14,97
	Choline Chloride	14
	D-Biotin	0,0073
	D-Ca Pantothenate	0,258
	Folic Acid	1,3
	Myo-Inositol	18
	Nicotinamide	0,036
	Pyridoxine Hydrochloride	0,06
Riboflavin	0,037	
Thiamine Hydrochloride	0,3	
Vitamin B12	1,36	

O.C.*	Adenosine 5'-Triphosphate x 2Na	1,193
	D-Glucose Anhydrous	6000
	Hypoxanthine	4,1
	Linoleic Acid	0,084
	Phenol Red Solution Salt	1,2
	Putrescine+2HCL	0,161
	Sodium Pyruvate	220
	Thioctic Acid	0,21
Thymidine	0,73	

* Other Components

Iscove's Modified Dulbecco's Medium (IMDM)

	L0190 Liquid mg/l	L0191 Liquid mg/l	L0192 Liquid mg/l	P0191 Powder mg/l	
Amino Acids	Glycine	30	30	30	30
	L-Alanine	25	25	25	25
	L-Alanyl-L-Glutamine (Glutamine stable)	/	862	/	/
	L-Arginine Monohydrochloride	84	84	84	84
	L-Asparagine Monohydrate	28,4	28,4	28,4	28,4
	L-Aspartic Acid	30	30	30	30
	L-Cystine Dihydrochloride	91,24	91,24	91,24	91,24
	L-Glutamic Acid	75	75	75	75
	L-Glutamine	584	/	/	584
	L-Histidine Monohydrochloride Monohydrate	42	42	42	42
	L-Isoleucine	105	105	105	105
	L-Leucine	105	105	105	105
	L-Lysine Monohydrochloride	146	146	146	146
	L-Methionine	30	30	30	30
	L-Phenylalanine	66	66	66	66
	L-Proline	40	40	40	40
	L-Serine	42	42	42	42
	L-Threonine	95	95	95	95
L-Tryptophan	16	16	16	16	
L-Tyrosine Disodium Salt Dihydrate	103,79	103,79	103,79	103,79	
L-Valine	94	94	94	94	
Inorganic Salts	Calcium Chloride Dihydrate	219	219	219	219
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67	97,67
	Potassium Chloride	330	330	330	330
	Potassium Nitrate	0,076	0,076	0,076	0,076
	Sodium Bicarbonate	3024	3024	3024	/
	Sodium Chloride	4505	4505	4505	4505
	Sodium Phosphate Monobasic Anhydrous	109	109	109	109
Sodium Selenite	0,017	0,017	0,017	0,017	
Vitamins	Choline Chloride	4	4	4	4
	D-Biotin	0,013	0,013	0,013	0,013
	D-Ca Pantothenate	4	4	4	4
	Folic Acid	4	4	4	4
	Myo-Inositol	7,2	7,2	7,2	7,2
	Nicotinamide	4	4	4	4
	Pyridoxal Hydrochloride	4	4	4	4
	Riboflavin	0,4	0,4	0,4	0,4
	Thiamine Hydrochloride	4	4	4	4
Vitamin B12	0,013	0,013	0,013	0,013	
O.C.*	D-Glucose Anhydrous	4500	4500	4500	4500
	Hepes Free Acid	5958	5958	/	5958
	Phenol Red Sodium Salt	16	16	16	16
	Sodium Pyruvate	110	110	110	110

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

* Other Components

Leibovitz L15 Medium

	L0300 <i>Liquid</i> mg/l	P0350 <i>Powder</i> mg/l	
Amino Acids	Glycine	200	200
	L-Alanine	450	450
	L-Arginine Free Base	500	500
	L-Asparagine Anhydrous	250	250
	L-Cysteine Monohydrochloride Monohydrate	157,176	157,176
	L-Glutamine	/	300
	L-Histidine	250	250
	L-Isoleucine	250	250
	L-Leucine	125	125
	L-Lysine Monohydrochloride	75	75
	L-Methionine	150	150
	L-Phenylalanine	250	250
	L-Serine	200	200
	L-Threonine	600	600
	L-Tryptophan	20	20
L-Tyrosine	300	300	
L-Valine	200	200	
Inorganic Salts	Calcium Chloride Dihydrate	185	185
	Magnesium Chloride Anhydrous	/	93,66
	Magnesium Chloride Hexahydrate	200	/
	Magnesium Sulfate Anhydrous	97,67	97,67
	Potassium Chloride	400	400
	Potassium Phosphate Monobasic Anhydrous	60	60
	Sodium Chloride	8000	8000
Sodium Phosphate Dibasic Anhydrous	190	190	
Vitamins	Choline Chloride	1	1
	D-Ca Pantothenate	1	1
	Flavin Adenine Dinucleotide Disodium Salt	0,1	0,1
	Folic Acid	1	1
	Myo-Inositol	2	2
	Nicotinamide	1	1
	Pyridoxine Hydrochloride	1	1
	Thiamine Hydrochloride	1	1
O.C.*	D-Galactose	900	900
	Phenol Red Sodium Salt	11	11
	Sodium Pyruvate	550	550

* Other Components

MC Coy's 5A Medium Modified

	L0210 <i>Liquid</i> g/l	P0390 <i>Powder</i> mg/l	
Amino Acids	Glycine	7,5	7,5
	L-Alanine	13,9	13,9
	L-Arginine Monohydrochloride	42,1	42,1
	L-Asparagine Anhydrous	45	45
	L-Aspartic Acid	19,97	19,97
	L-Cysteine Free Base	31,5	31,5
	L-Glutamic Acid	22,1	22,1
	L-Glutamine	219,2	219,2
	L-Histidine Monohydrochloride Monohydrate	20,96	20,96
	L-Hydroxy-L-Proline	19,7	19,7
	L-Isoleucine	39,36	39,36
	L-Leucine	39,36	39,36
	L-Lysine Monohydrochloride	36,5	36,5
	L-Methionine	14,9	14,9
	L-Phenylalanine	16,5	16,5
	L-Proline	17,3	17,3
	L-Serine	26,3	26,3
L-Threonine	17,9	17,9	
L-Tryptophan	3,1	3,1	
L-Tyrosine Disodium Salt Dihydrate	26,1	26,1	
L-Valine	17,6	17,6	
Inorganic Salts	Calcium Chloride Dihydrate	132,46	132,46
	Magnesium Sulfate Anhydrous	97,66	97,66
	Potassium Chloride	400	400
	Sodium Bicarbonate	22000	/
	Sodium Chloride	6460	6460
	Sodium Phosphate Monobasic Anhydrous	504,35	504,35
Vitamins	Ascorbic Acid	0,5	0,5
	Choline Chloride	5	5
	D-Biotin	0,2	0,2
	D-Ca Pantothenate	0,2	0,2
	Folic Acid	10	10
	Myo-Inositol	36	36
	Nicotinamide	0,5	0,5
	Nicotinic Acid	0,5	0,5
	P-Aminobenzoic Acid (PABA)	1	1
	Pyridoxal Hydrochloride	0,5	0,5
	Robiflavin	0,2	0,2
Thiamine Hydrochloride	0,2	0,2	
Vitamin B12	2	2	
O.C.*	D-Glucose Anhydrous	3000	3000
	L-Glutathione (Reduced)	0,5	0,5
	Bactopeptone	600	600
	Phenol Red Sodium Salt	10,2	10,2

* Other Components

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

Medium 199

	L0330 <i>Liquid</i> mg/l	L0355 <i>Liquid</i> mg/l	L0356 <i>Liquid</i> mg/l	P0410 <i>Powder</i> mg/l	P0420 <i>Powder</i> mg/l	P0425 <i>Powder</i> mg/l	L0361 <i>Liquid</i> mg/l
Glycine	50	50	50	50	50	50	50
L-Alanine	50	50	50	50	50	50	50
L-Alanyl-L-Glutamine (Glutamine stable)	/	/	/	/	/	/	100
L-Arginine Monohydrochloride	70	70	70	70	70	70	70
L-Aspartic Acid	60	60	60	60	60	60	60
L-Cysteine Monohydrochloride Monohydrate	0,11	0,11	0,11	0,11	0,11	0,11	0,11
L-Cystine Dihydrochloride	26	26	26	26	26	26	26
L-Glutamic Acid	133,6	133,6	133,6	133,6	133,6	133,6	133,6
L-Glutamine	100	100	/	/	100	100	/
L-Histidine Monohydrochloride Monohydrate	21,88	21,88	21,88	21,88	21,88	21,88	21,88
L-Hydroxy-L-Proline	10	10	10	10	10	10	10
L-Isoleucine	40	40	40	40	40	40	40
L-Leucine	120	120	120	120	120	120	120
L-Lysine Monohydrochloride	70	70	70	70	70	70	70
L-Methionine	30	30	30	30	30	30	30
L-Phenylalanine	50	50	50	50	50	50	50
L-Proline	40	40	40	40	40	40	40
L-Serine	50	50	50	50	50	50	50
L-Threonine	60	60	60	60	60	60	60
L-Tryptophan	20	20	20	20	20	20	20
L-Tyrosine Disodium Salt Dihydrate	57,66	57,66	57,66	57,66	57,66	57,66	57,66
L-Valine	50	50	50	50	50	50	50
Calcium Chloride Dihydrate	185	265	265	185	265	265	265
Ferric Nitrate Nonahydrate	0,72	0,72	0,72	0,72	0,72	0,72	0,72
Magnesium Sulfate Anhydrous	97,67	97,67	97,67	97,67	97,67	97,67	97,67
Potassium Chloride	400	400	400	400	400	400	400
Potassium Phosphate Monobasic Anhydrous	60	/	/	60	/	/	/
Sodium Acetate Anhydrous	50	50	50	50	50	50	50
Sodium Bicarbonate	350	1250	2200	/	/	/	2200
Sodium Chloride	8000	6800	6800	8000	6800	6000	6000
Sodium Phosphate Dibasic Anhydrous	47,88	/	/	47,88	/	/	/
Sodium Phosphate Monobasic Anhydrous	/	122	122	/	122	122	122

Amino Acids

Inorganic Salts

Medium 199 (following)		L0330	L0355	L0356	P0410	P0420	P0425	L0361
		Liquid mg/l	Liquid mg/l	Liquid mg/l	Powder mg/l	Powder mg/l	Powder mg/l	Liquid mg/l
Vitamins	Ascorbic Acid	0,0566	0,0566	0,0566	0,0566	0,0566	0,0566	0,0566
	Choline Chloride	0,5	0,5	0,5	0,5	0,5	0,5	0,5
	DL-alpha-Tocopherol Phosphate Disodium Salt	0,01	0,01	0,01	0,01	0,01	0,01	0,01
	D-Biotin	0,01	0,01	0,01	0,01	0,01	0,01	0,01
	D-Ca Pantothenate	0,01	0,01	0,01	0,01	0,01	0,01	0,01
	Ergocalciferol	0,1	0,1	0,1	0,1	0,1	0,1	0,1
	Folic Acid	0,01	0,01	0,01	0,01	0,01	0,01	0,01
	Menadione Sodium Bisulfite	0,016	0,016	0,016	0,016	0,016	0,016	0,016
	Myo-Inositol	0,05	0,05	0,05	0,05	0,05	0,05	0,05
	Nicotinamide	0,025	0,025	0,025	0,025	0,025	0,025	0,025
	Nicotinic Acid	0,025	0,025	0,025	0,025	0,025	0,025	0,025
	P-Aminobenzoic Acid (PABA)	0,05	0,05	0,05	0,05	0,05	0,05	0,05
	Pyridoxal Hydrochloride	0,025	0,025	0,025	0,025	0,025	0,025	0,025
	Pyridoxine Hydrochloride	0,025	0,025	0,025	0,025	0,025	0,025	0,025
	Roboflavin	0,01	0,01	0,01	0,01	0,01	0,01	0,01
	Thiamine Hydrochloride	0,01	0,01	0,01	0,01	0,01	0,01	0,01
Vitamin A Acetate	0,14	0,14	0,14	0,14	0,14	0,14	0,14	
O.C.*	2 Deoxy-D-Ribose	0,5	0,5	0,5	0,5	0,5	0,5	0,5
	Adenine Sulfate	10	10	10	10	10	10	10
	Adenosine 5'Monophosphate	0,2385	0,2385	0,2385	0,2385	0,2385	0,2385	0,2385
	Adenosine -5-Triphosphate x 2Na	1	1	1	1	1	1	1
	Cholesterol	0,2	0,2	0,2	0,2	0,2	0,2	0,2
	D-Glucose Anhydrous	1000	1000	1000	1000	1000	1000	1000
	D-Ribose	0,5	0,5	0,5	0,5	0,5	0,5	0,5
	Guanine	0,3	0,3	0,3	/	0,3	/	/
	Guanine + HCl	/	/	/	0,3	/	0,3	0,3
	Hepes Free Acid	/	/	/	/	/	5958	5958
	Hypoxanthine	0,3	0,3	0,3	0,3	0,3	0,3	0,3
	L-Glutathione (Reduced)	0,05	0,05	0,05	0,05	0,05	0,05	0,05
	Phenol Red Sodium Salt	21,3	21,3	21,3	21,3	21,3	21,3	21,3
	Thymine	0,3	0,3	0,3	0,3	0,3	0,3	0,3
	Tween 80	20	20	20	20	20	20	20
	Uracil	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Xanthine + Na	0,344	0,344	0,344	0,344	0,344	0,344	0,344	

* Other Components

MEM with Earle's Salts

	L0415 <i>Liquid</i> mg/l	L0416 <i>Liquid</i> mg/l	L0430 <i>Liquid</i> mg/l	L0440 <i>Liquid</i> mg/l	L0444 <i>Liquid</i> mg/l	L0445 <i>Liquid</i> mg/l	P0450 <i>Powder</i> mg/l	P0451 <i>Powder</i> mg/l
Glycine	/	/	7,5	/	/	/	7,5	/
L-Alanine	/	/	8,9	/	/	/	8,9	/
L-Alanyl-L-Glutamine	/	434,4	/	/	/	/	/	/
L-Arginine Monohydrochloride	126	126	126	126	126	126	126	126
L-Asparagine Monohydrate	/	/	15	/	/	/	15	/
L-Aspartic Acid	/	/	13,3	/	/	/	13,3	/
L-Cystine Dihydrochloride	31,3	31,3	31,3	31,3	31,3	31,3	31,3	31,3
L-Glutamic Acid	/	/	14,7	/	/	/	14,7	/
L-Glutamine	292	/	/	/	292	/	292	292
L-Histidine Monohydrochloride Monohydrate	42	42	42	42	42	42	42	42
L-Isoleucine	52	52	52	52	52	52	52	52
L-Leucine	52	52	52	52	52	52	52	52
L-Lysine Monohydrochloride	72,5	72,5	72,5	72,5	72,5	72,5	72,5	72,5
L-Methionine	15	15	15	15	15	15	15	15
L-Phenylalanine	32	32	32	32	32	32	32	32
L-Proline	/	/	11,5	/	/	/	11,5	/
L-Serine	/	/	10,5	/	/	/	10,5	/
L-Threonine	48	48	48	48	48	48	48	48
L-Tryptophan	10	10	10	10	10	10	10	10
L-Tyrosine Disodium Salt Dihydrate	51,9	51,9	51,9	51,9	51,9	51,9	51,9	51,9
L-Valine	46	46	46	46	46	46	46	46
Calcium Chloride	265	265	265	265	265	265	265	200
Magnesium Sulfate Anhydrous	97,67	97,67	97,67	97,67	97,67	97,67	97,67	97,67
Potassium Chloride	400	400	400	400	400	400	400	400
Sodium Bicarbonate	2200	2200	2200	2200	2200	2200	/	/
Sodium Chloride	6800	6800	6800	6800	5500	5500	6800	6800
Sodium Phosphate Monobasic Anhydrous	122	122	122	122	122	122	122	122
Choline Chloride	1	1	1	1	1	1	1	1
D-Ca Pantothenate	1	1	1	1	1	1	1	1
Folic Acid	1	1	1	1	1	1	1	1
Myo-Inositol	2	2	2	2	2	2	2	2
Nicotinamide	1	1	1	1	1	1	1	1
Pyridoxal Hydrochloride	1	/	1	1	1	1	1	1
Pyridoxine Hydrochloride	/	1	/	/	/	/	/	/
Riboflavin	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1
Thiamine Hydrochloride	1	1	1	1	1	1	1	1
D-Glucose Anhydrous	1000	1000	1000	1000	1000	1000	1000	1000
Hepes Free Acid	/	/	/	/	5958	5958	/	/
Phenol Red Sodium Salt	11	11	11	11	11	11	11	11

* Other Components

MEM with Hanks' Salts		L0465 <i>Liquid</i> mg/l	L0470 <i>Liquid</i> mg/l	P0515 <i>Powder</i> mg/l
Amino Acids	Glycine	/	/	7,5
	L-Alanine	/	/	8,9
	L-Arginine Monohydrochloride	126	126	126
	L-Asparagine Monohydrate	/	/	15
	L-Aspartic Acid	/	/	13,3
	L-Cystine Dihydrochloride	31,3	31,3	31,3
	L-Glutamic Acid	/	/	14,7
	L-Glutamine	/	/	292
	L-Histidine Monohydrochloride Monohydrate	42	42	42
	L-Isoleucine	52	52	52
	L-Leucine	52	52	52
	L-Lysine Monohydrochloride	72,5	72,5	72,5
	L-Methionine	15	15	15
	L-Phenylalanine	32	32	32
	L-Proline	/	/	11,5
	L-Serine	/	/	10,5
L-Threonine	48	48	48	
L-Tryptophan	10	10	10	
L-Tyrosine Disodium Salt Dihydrate	51,9	51,9	51,9	
L-Valine	46	46	46	
Inorganic Salts	Calcium Chloride Dihydrate	185	185	185
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67
	Potassium Chloride	400	400	400
	Potassium Phosphate Monobasic Anhydrous	60	60	60
	Sodium Bicarbonate	350	350	/
	Sodium Chloride	8000	7500	8000
Sodium Phosphate Dibasic Anhydrous	47,88	47,88	47,88	
Vitamins	Choline Chloride	1	1	1
	D-Ca Pantothenate	1	1	1
	Folic Acid	1	1	1
	Myo-Inositol	2	2	2
	Nicotinamide	1	1	1
	Pyridoxine Hydrochloride	1	1	1
	Riboflavin	0,1	0,1	0,1
Thiamine Hydrochloride	1	1	1	
O.C.*	D-Glucose Anhydrous	1000	1000	1000
	Hepes Free Acid	/	5958	/
	Phenol Red Sodium Salt	11	11	11

* Other Components

MEM Alpha Modification

	L0475 <i>Liquid</i> mg/l	L0476 <i>Liquid</i> mg/l	P0440 <i>Powder</i> mg/l	
Amino Acids	Glycine	50	50	50
	L-Alanine	25	25	25
	L-Arginine Monohydrochloride	126	126	126
	L-Asparagine Monohydrate	50	50	50
	L-Aspartic Acid	30	30	30
	L-Cysteine Monohydrochloride Monohydrate	100	100	100
	L-Cystine Dihydrochloride	31,3	31,3	31,3
	L-Glutamic Acid	75	75	75
	L-Glutamine	292	/	292
	L-Histidine Monohydrochloride Monohydrate	42	42	42
	L-Isoleucine	52	52	52
	L-Leucine	52	52	52
	L-Lysine Monohydrochloride	72,5	72,5	72,5
	L-Methionine	15	15	15
	L-Phenylalanine	32	32	32
	L-Proline	40	40	40
	L-Serine	25	25	25
	L-Threonine	48	48	48
	L-Tryptophan	10	10	10
L-Tyrosine Disodium Salt Dihydrate	51,9	51,9	51,9	
L-Valine	46	46	46	
Inorganic Salts	Calcium Chloride Dihydrate	265	265	265
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67
	Potassium Chloride	400	400	400
	Sodium Bicarbonate	2200	2200	/
	Sodium Chloride	6800	6800	6800
Sodium Phosphate Monobasic Anhydrous	122	122	122	
Vitamins	Ascorbic Acid	50	50	50
	Choline Chloride	1	1	1
	D-Biotin	0,1	0,1	0,1
	D-Ca Pantothenate	1	1	1
	Folic Acid	1	1	1
	Myo-Inositol	2	2	2
	Nicotinamide	1	1	1
	Pyridoxal Hydrochloride	1	1	1
	Riboflavin	0,1	0,1	0,1
	Thiamine Hydrochloride	1	1	1
Vitamin B12	1,36	1,36	1,36	
O.C.*	D-Glucose Anhydrous	1000	1000	1000
	Phenol Red Sodium Salt	11	11	11
	Sodium Pyruvate	110	110	110
	Thioctic Acid	0,2	0,2	0,2

* Other Components

RPMI 1640 Medium
(liquid)

	L0490	L0492	L0495	L0496	L0498	L0500	L0501	L0503	L0505
	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l
Amino Acids	Glycine	10	10	10	10	10	10	10	10
	L-Alanyl-L-Glutamine	/	/	/	446	446	/	/	/
	L-Arginine Free Base	200	200	200	200	200	200	200	200
	L-Asparagine Anhydrous	50	50	50	50	50	50	50	50
	L-Aspartic Acid	20	20	20	20	20	20	20	20
	L-Cystine Dihydrochloride	65,2	65,2	65,2	65,2	65,2	65,2	65,2	65,2
	L-Glutamic Acid	20	20	20	20	20	20	20	20
	L-Glutamine	/	/	300	/	/	300	/	/
	L-Histidine	15	15	15	15	15	15	15	15
	L-Hydroxy-L-Proline	20	20	20	20	20	20	20	20
	L-Isoleucine	50	50	50	50	50	50	50	50
	L-Leucine	50	50	50	50	50	50	50	50
	L-Lysine Monhydrochloride	40	40	40	40	40	40	40	40
	L-Methionine	15	15	15	15	15	15	15	15
	L-Phenylalanine	15	15	15	15	15	15	15	15
	L-Proline	20	20	20	20	20	20	20	20
	L-Serine	30	30	30	30	30	30	30	30
	L-Threonine	20	20	20	20	20	20	20	20
	L-Tryptophan	5	5	5	5	5	5	5	5
L-Tyrosine Disodium Salt Dihydrate	28,83	28,83	28,83	28,83	28,83	28,83	28,83	28,83	28,83
L-Valine	20	20	20	20	20	20	20	20	20
Inorganic Salts	Calcium Nitrate Tetrahydrate	100	100	100	100	100	100	100	100
	Magnesium Sulfate Anhydrous	48,84	48,84	48,84	48,84	48,84	48,84	48,84	48,84
	Potassium Chloride	400	400	400	400	400	400	400	400
	Sodium Bicarbonate	2000	1000	2000	2000	2000	2000	2000	2000
	Sodium Chloride	6000	6400	6000	6000	6000	6000	6000	6000
	Sodium Phosphate Dibasic Anhydrous	800	800	800	800	800	800	800	800
Vitamins	Choline Chloride	3	3	3	3	3	3	3	3
	D-Biotin	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
	D-Ca Pantothenate	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25
	Folic Acid	1	1	1	1	1	1	/	1
	Myo-Inositol	35	35	35	35	35	35	35	35
	Nicotinamide	1	1	1	1	1	1	1	1
	P-Aminobenzoic Acid (PABA)	1	1	1	1	1	1	1	1
	Pyridoxine Hydrochloride	1	1	1	1	1	1	1	1
	Riboflavin	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
	Thiamine Hydrochloride	1	1	1	1	1	1	1	1
Vitamin B12	0,005	0,005	0,005	0,005	0,005	0,005	0,005	0,005	
O.C.*	D-Glucose Anhydrous	2000	2000	2000	2000	2000	2000	2000	2000
	Hepes Free Acid	5960	4770	5960	5960	/	/	/	/
	L-Glutathione Reduced	1	1	1	1	1	1	1	1
	Phenol Red Sodium Salt	5,3	5,3	5,3	5,3	5,3	5,3	5,3	/

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

* Other Components

RPMI 1640 Medium (Powder)

	P0860 Powder mg/l	P0870 Powder mg/l	P0871 Powder mg/l	P0876 Powder mg/l	P0883 Powder mg/l	P0880 Powder mg/l
Glycine	10	10	10	10	10	10
L-Alanyl-L-Glutamine (Glutamine Stable)	/	/	/	/	/	/
L-Arginine Free Base	200	200	200	/	200	200
L-Arginine Monohydrochloride	/	/	/	241,9	/	/
L-Asparagine Anhydrous	50	50	50	50	50	50
L-Aspartic Acid	20	20	20	20	20	20
L-Cystine	/	/	/	50	/	/
L-Cystine Dihydrochloride	65,2	65,2	65,2	/	65,2	65,2
L-Glutamic Acid	20	20	20	20	20	20
L-Glutamine	300	/	/	300	300	300
L-Histidine	15	15	15	15	15	15
L-Hydroxy-L-Proline	20	20	20	20	20	20
L-Isoleucine	50	50	50	50	50	50
L-Leucine	50	50	50	50	50	50
L-Lysine Monhydrochloride	40	40	40	40	40	40
L-Methionine	15	15	15	15	15	15
L-Phenylalanine	15	15	15	15	15	15
L-Proline	20	20	20	20	20	20
L-Serine	30	30	30	30	30	30
L-Threonine	20	20	20	20	20	20
L-Tryptophan	5	5	5	5	5	5
L-Tyrosine	/	/	/	20	/	/
L-Tyrosine Disodium Salt Dihydrate	28,83	28,83	28,83	/	28,83	28,83
L-Valine	20	20	20	20	20	20
Calcium Nitrate Tertahydrate	100	100	100	100	100	100
Magnesium Sulfate Anhydrous	48,84	48,84	48,84	/	48,84	48,84
Magnesium Sulfate Heptahydrate	/	/	/	100	/	/
Potassium Chloride	400	400	400	400	400	400
Sodium Bicarbonate	/	/	/	/	/	/
Sodium Chloride	6000	6000	6000	5500	6000	6000
Sodium Phosphate Dibasic Anhydrous	800	800	800	800	800	800
Choline Chloride	3	3	3	3	3	3
D-Biotin	0,2	0,2	0,2	0,2	0,2	0,2
D-Ca Pantothenate	0,25	0,25	0,25	0,24	0,25	0,25
Folic Acid	1	1	1	1	1	1
Myo-Inositol	35	35	35	35	35	35
Nicotinamide	1	1	1	1	1	1
P-Aminobenzoic Acid (PABA)	1	1	1	1	1	1
Pyridoxine Hydrochloride	1	1	1	1	1	1
Riboflavin	0,2	0,2	0,2	0,2	0,2	0,2
Thiamine Hydrochloride	1	1	1	1	1	1
Vitamin B12	0,005	0,005	0,005	0,005	0,005	0,005
D-Glucose Anhydrous	2000	2000	2000	2000	/	2000
Hepes Free Acid	/	/	/	5958	/	/
L-Glutathione Reduced	1	1	1	1	1	1
Phenol Red Sodium Salt	5,3	5,3	/	/	5,3	/

* Other Components

Schneider's Drosophila Medium**L0207***Liquid
mg/l*

Amino Acids	Beta Alanine	500
	Glycine	250
	L-Arginine Free Base	600
	L-Aspartic Acid	400
	L-Cysteine Monohydrochloride Monohydrate	78,588
	L-Cystine Dihydrochloride	26,732
	L-Glutamic Acid	800
	L-Glutamine	1800
	L-Histidine	400
	L-Isoleucine	150
	L-Leucine	150
	L-Lysine Monhydrochloride	1650
	L-Methionine	150
	L-Proline	1700
	L-Serine	250
L-Threonine	350	
L-Tryptophan	100	
L-Tyrosine Disodium Salt Dihydrate	720,199	
L-Valine	300	
Inorganic Salts	Calcium Chloride Anhydrous	600
	Magnesium Sulfate Anhydrous	1807,221
	Potassium Chloride	1600
	Potassium Phosphate Monobasic Anhydrous	450
	Sodium Bicarbonate	400
	Sodium Chloride	2100
	Sodium Phosphate Dibasic Anhydrous	700
Succinic Acid	60	
O.C.*	Alpha-Ketoglutaric Acid	350
	D(+)-Trehalose Dihydrate	2000
	D-Glucose Anhydrous	2000
	Fumaric Acid	60
	L-Malic Acid	600
Yeast Extract	2000	

* Other Components

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

**Serum Reduced Media
MCDB**
L1203
*Liquid
mg/l*

		L1203
		<i>Liquid mg/l</i>
Amino Acids	Glycine	7,51
	L-Alanine	8,91
	L-Arginine Monohydrochloride	210,7
	L-Asparagine Monohydrate	15
	L-Aspartic Acid	3,99
	L-Cysteine Monohydrochloride Monohydrate	42,04
	L-Glutamic Acid	14,71
	L-Glutamine	877,2
	L-Histidine Monohydrochloride Monohydrate	16,77
	L-Isoleucine	1,968
	L-Leucine	65,6
	L-Lysine Monohydrochloride	18,27
	L-Methionine	4,476
	L-Phenylalanine	4,956
	L-Proline	34,53
	L-Serine	63,06
	L-Threonine	11,91
L-Tryptophan	3,06	
L-Tyrosine	/	
L-Tyrosine Disodium Salt Dihydrate	3,92	
L-Valine	35,13	
Inorganic Salts	Ammonium Metavanadate	/
	Ammonium Molybdate Tetrahydrate	/
	Calcium Chloride Dihydrate	4,411
	Cupric Sulfate Pentahydrate	0,0025
	Ferrous Sulfate Heptahydrate	0,417
	Magnesium Chloride Hexahydrate	122
	Magnesium Sulfate Anhydrous	/
	Magnesium Sulfate Heptahydrate	/
	Manganese Sulfate Monohydrate	/
	Nickel Chloride Hexahydrate	/
	Potassium Chloride	111,83
	Potassium Phosphate Monobasic Anhydrous	/
	Sodium Acetate Anhydrous	301,53
	Sodium Bicarbonate	1176
	Sodium Chloride	7599
	Sodium Metasilicate Nonahydrate	/
	Sodium Phosphate Dibasic Anhydrous	284,088
Sodium Selenite	/	
Stannous Chloride Dihydrate	/	
Zinc Sulfate Heptahydrate	0,863	

Vitamins	Choline Chloride	13,96
	D-Biotin	0,0146
	D-Ca Pantothenate	0,238
	Folic Acid	0,79
	Myo-Inositol	18,02
	Nicotinamide	0,0366
	Pyridoxine Hydrochloride	0,0617
	Riboflavin	0,0376
O.C.*	Thiamine Hydrochloride	0,337
	Vitamin B12	0,407

O.C.*	Adenine Monohydrochloride	30,88
	D-Glucose Anhydrous	1081
	Hepes Free Acid	6600
	Linoleic Acid	/
	Phenol Red Sodium Salt	1,242
	Putrescine + 2HCl	0,1611
	Sodium Pyruvate	55
	Thioctic Acid	0,2063
	Thymidine	0,727

* Other Components

Dulbecco's Phosphate Buffered Saline DPBS

	L0615 Liquid mg/l	L0625 Liquid mg/l	X0515 Liquid mg/l	X0520 Liquid mg/l	P0750 Powder mg/l	
Inorganic Salts	Calcium Chloride Dihydrate	/	133	/	1330	/
	Magnesium Chloride Hexahydrate	/	100	/	1000	/
	Potassium Chloride	200	200	2000	2000	200
	Potassium Phosphate Monobasic Anhydrous	200	200	2000	2000	200
	Sodium Chloride	8000	8000	80000	80000	8000
	Sodium Phosphate Dibasic Anhydrous	1150	1150	11500	11500	1150

Earl's Balanced Salts Solution EBSS

	L0601 Liquid mg/l	L0602 Liquid mg/l	X0112 Liquid mg/l	X0113 Liquid mg/l	
Inorganic Salts	Calcium Chloride Dihydrate	/	265	2650	/
	Magnesium Sulfate Anhydrous	/	97,67	976,7	/
	Potassium Chloride	400	400	4000	4000
	Sodium Bicarbonate	2200	2200	/	/
	Sodium Chloride	6800	6800	68000	68000
	Sodium Phosphate Monobasic Anhydrous	122	122	1220	1220
O.C.*	D-Glucose Anhydrous	1000	1000	10000	10000
	Phenol Red Sodium Salt	11	11	110	110

Hank's Balanced Salts Solution HBSS

	L0605 Liquid mg/l	L0606 Liquid mg/l	L0607 Liquid mg/l	L0611 Liquid mg/l	L0612 Liquid mg/l	
Inorganic Salts	Calcium Chloride Dihydrate	/	185	/	/	185
	Magnesium Sulfate Anhydrous	/	97,67	/	/	97,67
	Potassium Chloride	400	400	400	400	400
	Potassium Phosphate Monobasic Anhydrous	60	60	60	60	60
	Sodium Bicarbonate	/	350	350	350	350
	Sodium Chloride	8000	8000	8000	8000	8000
Sodium Phosphate Dibasic Anhydrous	47,88	47,88	47,88	47,88	47,88	
O.C.*	D-Glucose Anhydrous	1000	1000	1000	1000	1000
	Phenol Red Sodium Salt	/	11	/	11	/

Hank's Balanced Salts Solution HBSS

	X0507 Liquid mg/l	X0509 Liquid mg/l	X0510 Liquid mg/l	X0513 Liquid mg/l	P0153 Powder mg/l	P0154 Powder mg/l	
Inorganic Salts	Calcium Chloride Dihydrate	/	1850	/	/	185	
	Magnesium Sulfate Anhydrous	/	976,7	/	/	97,68	
	Potassium Chloride	4000	4000	4000	4000	400	400
	Potassium Phosphate Monobasic Anhydrous	600	600	600	600	60	60
	Sodium Bicarbonate	/	/	3500	/	/	/
	Sodium Chloride	80000	80000	80000	80000	8000	8000
Sodium Phosphate Dibasic Anhydrous	478,8	478,8	478,8	478,8	47,88	47,88	
O.C.*	D-Glucose Anhydrous	10000	10000	10000	10000	1000	1000
	Phenol Red Sodium Salt	/	110	/	110	/	11

* Other Components

Other Salt Solution and Salts

	L0680 <i>Liquid</i> mg/l	L0640 <i>Liquid</i> mg/l	L0642 <i>Liquid</i> mg/l	L0643 <i>Liquid</i> mg/l	L0630 <i>Liquid</i> mg/l	
Inorganic Salts	EDTA Disodium Salt Dihydrate	/	/	/	/	292
	Potassium Chloride	/	/	/	5590	193
	Potassium Phosphate Monobasic Anhydrous	/	/	/	/	190
	Sodium Bicarbonate	75000	/	/	/	/
	Sodium Chloride	/	8500	/	/	7995
	Sodium Phosphate Dibasic Anhydrous	/	/	/	/	1150
	Sodium Pyruvate	/	/	11000	/	/
O.C.*	D-Glucose Anhydrous	/	/	/	/	198

Trypsin

	L0909 <i>Liquid</i> mg/l	L0910 <i>Liquid</i> mg/l	L0930 <i>Liquid</i> mg/l	L0931 <i>Liquid</i> mg/l	L0932 <i>Liquid</i> mg/l	
Inorganic Salts	EDTA	/	/	/	/	/
	EDTA Disodium Salt Dihydrate	/	/	221,4	380	200
	Potassium Chloride	200	200	400	400	400
	Potassium Phosphate Monobasic Anhydrous	200	200	/	60	60
	Sodium Bicarbonate	/	/	580	350	350
	Sodium Chloride	8000	8000	8000	8000	8000
	Sodium Phosphate Dibasic Anhydrous	1150	1150	/	48	48
O.C.*	D-Glucose Anhydrous	1000	1000	1000	1000	1000
	Phenol Red Sodium Salt	2	/	2	10	10
	Trypsin 1:250	2500	2500	500	2500	2500

Trypsin

	X0920 <i>Liquid</i> mg/l	L0940 <i>Liquid</i> mg/l	X0930 <i>Liquid</i> mg/l	P0940 <i>Powder</i> mg/l	L0941 <i>Liquid</i> mg/l	
Inorganic Salts	EDTA	/	200	/	2000	/
	EDTA Disodium Salt Dihydrate	/	/	2214	/	372
	Potassium Chloride	400	200	4000	/	200
	Potassium Phosphate Monobasic Anhydrous	60	200	/	/	200
	Sodium Bicarbonate	350	/	/	/	/
	Sodium Chloride	8000	8000	8000	8500	7950
	Sodium Phosphate Dibasic Anhydrous	47,88	1150	/	/	1150
O.C.*	D-Glucose Anhydrous	1000	1000	10000	/	1000
	Phenol Red Sodium Salt	/	/	/	/	/
	Trypsin 1:250	25000	500	5000	500	/
	Recombinant Trypsin 2500 USP	/	/	/	/	50

* Other Components

Standard Terms of Sale

The standard terms of sale and delivery shall be deemed to have been accepted for any order placed with our company. In the event of dispute, our terms cancel any conflicting clauses and terms printed on the orders or correspondence from buyers. Amendments of the initial agreement or any secondary agreement shall be valid only if they have been entered into in writing.

1- Products

The specifications and figures mentioned in our catalogues are given for information and without commitment. Biowest reserves the right to change its products without notice, depending on improvements imposed by the technical development.

2- Orders

Orders may be sent by letter, fax or e-mail. Orders shall be final only when Biowest has confirmed them in writing. They must include :

- the numbers of our catalogues or our offers. If the description is vague, if we ourselves have to make a choice, we disclaim liability on this account. The buyer shall bear any costs of return for the resulting non-compliance.
- delivery and invoicing addresses
- Inter-community VAT number

3- Deliveries

3.1- Delivery time

Delivery time shall be confirmed upon receipt of your order. If the products are not in stock, a delivery time shall be proposed for information, subject to accidental cases and force majeure. No penalty for late performance or damage may be claimed in the event said deliver times are not respected. Biowest shall choose the method of dispatch that it considers to be the most suitable for its customer, if the latter has not expressed special requirements.

3.2- Accidental cases and force majeure

Biowest shall be released from its obligation to deliver in the event of any accidental case or force majeure event that impedes either the manufacturing, dispatch or import into France. A force majeure event means any event beyond our control, which results in delaying or preventing the performance that could not be reasonably controlled or avoided.

4- Price and invoicing

The prices on catalogues, printed leaflets, price lists or on-line are given for information. Biowest reserves the right to amend same, without notice. Our prices are guaranteed for the term of validity of the offer or the estimate, apart from the change in the price of raw materials, exchange rates of foreign currencies or customs duties. The prices invoiced shall always be those in force on the date of the actual delivery.

Unless otherwise specified in writing, our prices are quoted net and excluding tax. Transport costs are defined in relation to volumes and end destinations.

5- Payment

5.1- Terms and conditions

Our invoices are payable by cheque, bank or postal transfer, revocable letter of credit, within 30 days, date of invoicing net and without discount, unless otherwise agreed in writing. Biowest reserves the right to claim an advance payment or a part payment prior to the fulfilment of the order.

5.2- Penalty clause and event of default clause

By express agreement and except with Biowest's prior agreement, the non payment of an invoice at due date shall give rise, by operation of law, regardless of the method of payment :

- to a minimum interest of 3 times the legal interest rate set by decree on 1 January of each year,
- The immediate payability of all outstanding amounts.

Standard Terms of Sale

Costs, outlay and expenses incurred by Biowest to obtain the payment of goods shall be borne by the customer under Article 700 of the New French Code of Civil Procedure (French acronym N.C.P.C.): fixed allowance for recovery costs : EUR 40. Moreover, pending regularisation, Biowest reserves the right to suspend any subsequent deliveries.

6- Warranty of services and reservations

6.1- Claims

The customer must check upon receipt of the products that the delivery is indeed compliant with its order. Any claim relating to transport should be made to our services within 48 hours and mentioned on the carrier's receipt. For any other non-apparent defect, we should be notified thereof within a maximum period of 3 months after receipt of the products and product storage instructions should be respected pending our instructions.

6.2 – Claim for partially thawed Serum

We do not accept claims if Animal Serum is delivered partially thawed, and we will not replace it free of charge, as our tests show a very good stability of the product even in these conditions.

6.3- Return

No return shall be accepted without the prior and written agreement of our sales department, which shall specify the terms and conditions of return. The returned products shall be credited, less a fixed amount for the costs of control and return to stock of 15% of the sale price, with a minimum of EUR 35 and only if they are in their original condition.

6.4- Scope of the warranty

The user must decide that said product is suitable for its specific application. The products of our catalogue are devised for scientific purposes only (use in-vitro exclusively). They may not be used as drugs, annex therapeutical products, pharmaceutical or cosmetic preparations, farm product and human or veterinary use products. The buyer shall be solely responsible for their use.

6.5- Transfer of risks

Our goods and their packaging shall always travel at the buyer's risks, even if they are dispatched carriage paid. We disclaim any liability for alterations occurring during transport. In the event of any damage, the consignee shall be responsible for notifying the carrier who made delivery of the losses and damage observed upon arrival, by registered letter within three days following receipt of the goods, in compliance with the regulations of Article 105 of the French Commercial Code and in general for bringing any claim against the carrier.

7- Retention of title clause

The seller reserves title to the goods until the price thereof in principal and interest has been paid in full. Failing payment of the price at the agreed due date, the seller may take back the goods. The sale shall be cancelled by operation of law if the seller sees fit and it shall be entitled to part payments already paid in consideration of any use of the goods by the buyer.

8- Disputes

Courts in the jurisdiction of the place of the company's registered office shall have sole jurisdiction in the event of a dispute of any kind or a dispute relating to the formation or fulfilment of the order. French law only shall govern orders placed with Biowest.

Alphabetical glossary

A	Accutase	46
	Amphotericin B	44
	Antibiotic-Antimycotic 100X	44
B	Bioguard-A	51
	Bioguard-S	51
	BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	24
	BME w/ Earle's Salts w/o L-Glutamine	24
	Bovine Plasma w/ Sodium Citrate	19
	Bovine Serum (France Origin)	18
	BSA 30%	17
	BSA Fatty Acids Free Lyophilised	17
	BSA Lyophilised pH -7	17
	BSA Protease Free Lyophilised	17
C	Calf Serum	18
	Cell Culture Water Pyrogen free	51
	Chicken Serum	18
	CMRL w/ L-Glutamine w/o Sodium Bicarbonate	24
	Colcemid 10 µg/ml in PBS	50
D	D-Glucose Monohydrate -Dextrose, cell culture tested	49
	DMEM - F12 w/ L-Glutamine w/ 15 mM Hepes	27
	DMEM - F12 w/ L-Glutamine w/ 25 mM Hepes	27
	DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	27
	DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	27
	DMEM - F12 w/ stable Glutamine w/ 15 mM Hepes	26
	DMEM - F12 w/o L- Glutamine w/o Hepes	26
	DMEM - F12 w/o L-Glutamine w/ 15 mM Hepes	27
	DMEM - F12 w/o L-Glutamine w/ 25 mM Hepes	27
	DMEM - F12 w/o L-Glutamine w/o Hepes w/o Glucose	26
	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	25
	DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate	25
	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	25
	DMEM High Glucose w/ L-Glutamine w/o Sodium Pyruvate	25
	DMEM High Glucose w/ stable Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	25
	DMEM High Glucose w/ stable Glutamine w/ Sodium Pyruvate	25
	DMEM High Glucose w/o L-Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	25
	DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate	25
	DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate	25
	DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	26
	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate	26
	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/ 25 mM Hepes	26
	DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate	26
	DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate	26
	Donkey Serum	18
	Donor Fetal Serum	18
	Donor Horse Serum	18
	Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium	39
	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	39
	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	39
	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
E	Earle's Balanced Salts 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	40
	Earle's Balanced Salts 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate	40
	Earle's Balanced Salts Solution w/ Calcium w/ Magnesium	40
	Earle's Balanced Salts Solution w/o Calcium w/o Magnesium	40
F	FBS Central America, USDA approved	12
	FBS Chile, USDA approved	12
	FBS France	12
	FBS Japan approved	12
	FBS Ireland	12
	FBS Mexico, USDA approved	12
	FBS South Africa	12
	FBS South America	12
	FBS South America, Charcoal Stripped	14
	FBS South America, Dialysed	15
	FBS South America, Embryonic Stem Cells tested	15
	FBS South America, Exosome Depleted	16
	FBS South America, Gamma Irradiated	14
	FBS South America, Heat Inactivated	14

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents
& other products

	FBS South America, Iron Supplemented	15
	FBS South America, Lipid Depleted	15
	FBS South America, Premium	13
	FBS South America, Tetracycline free	16
	FBS South America, Ultra-low Endotoxin	13
	FBS Uruguay.....	12
	FBS USA.....	12
G	G-418 (Geneticin) Solution	44
	G-418 (Geneticin) Solution	44
	G-418 SULFATE	44
	G-418 SULFATE	44
	Gentamicin Sulfate	44
	Gentamicin Sulfate	44
	Gentamicin Sulfate 10 mg/ml.....	44
	Gentamicin Sulfate 10 mg/ml	44
	Gentamicin Sulfate 50 mg/ml.....	44
	Gentamicin Sulfate 50 mg/ml	44
	Glasgow MEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth	27
	Glasgow MEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth.....	27
	Glasgow MEM BHK21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth.....	27
	Glutamine stable 100X, 200mM	49
	Glutamine-Penicillin-Streptomycin 100X	44
	Goat Serum.....	18
	Guinea Pig Serum.....	19
H	Ham's F10 w/ L-Glutamine	28
	Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate.....	28
	Ham's F10 w/o L-Glutamine	28
	Ham's F12 w/ L-Glutamine	28
	Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate.....	28
	Ham's F12 w/o L-Glutamine	28
	Ham's F14 w/ 6g/L Glucose w/ 1mg/L ATP	29
	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
	HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red.....	41
	HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	41
	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red.....	41
	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red.....	41
	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red	41
	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
	HBSS w/o Ca w/o Mg w/o Sodium Bicarbonate w/o Phenol Red	41
	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red.....	41
	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	41
	HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	41
	HEPES Buffer 1 M	42
	HEPES, cell culture tested	42
	Horse Serum	18
	Human Plasma pooled	19
	Human Serum AB male HIV tested.....	19
	Human Serum Albumin.....	19
	Human Serum HIV tested.....	19
I	IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes.....	29
	IMDM w/ L- Glutamine w/ 25mM Hepes.....	29
	IMDM w/ stable Glutamine w/ 25mM Hepes.....	29
	IMDM w/o L-Glutamine w/o Hepes.....	29
K	Kanamycin Solution 100X	44
	Kanamycin Solution 100X	44
L	L-Alanyl-L-Glutamine, stable Glutamine	49
	Lamb Serum	18
	Leibovitz L 15 Medium w/ L-Glutamine	30
	Leibovitz L15 Medium w/o L-Glutamine.....	30
	L-Glutamine.....	49
	L-Glutamine 100X, 200mM.....	49
	Lymphosep, Lymphocyte Separation Media	50
M	McCoy's 5A w/ L-Glutamine	30
	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	30
	MCDB 151	35
	Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	31
	Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate	31
	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate.....	31
	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	31
	Medium 199 w/ Earle's Salts w/ Stable Glutamine w/ 25 mM Hepes.....	31
	Medium 199 w/ Earle's Salts w/o L-Glutamine.....	31

	Medium 199 w/ Hanks' Salts w/ L-Glutamine.....	31
	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	33
	MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides.....	33
	MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	33
	MEM non Essential Amino Acids 100X w/o L-Glutamine.....	48
	MEM Vitamins 100X w/o L-Glutamine	48
	MEM w/ Earle's Salts w/ L-Glutamine	32
	MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM Hepes.....	32
	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	32
	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate.....	32
	MEM w/ Earle's Salts w/ stable Glutamine	32
	MEM w/ Earle's Salts w/o L-Glutamine	32
	MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	32
	MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA	32
	MEM w/ Hanks' Salts Solution w/o L-Glutamine.....	33
	MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate.....	33
	MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes	33
	Mouse Plasma w/ Lithium Heparin	18
	Mouse Serum	18
N	Nanomycopulitine Concentrat 20 x	44
	Nanomycopulitine Concentrat 20 x	44
	New Born Calf Serum	18
P	Penicillin G Sodium Salt	45
	Penicillin-Streptomycin	45
	Penicillin-Streptomycin Solution 100X	45
	Penicillin-Streptomycin Solution 100X	45
	Phytohaemagglutinin M (PHA-M) liquid	50
	Pig Serum	18
	Potassium Chloride.....	42
	Potassium Chloride 0.075 M.....	42
R	Rabbit Serum (France Origin)	18
	Rat Plasma w/ Lithium Heparin	19
	Rat Serum	18
	Recombinant Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red.....	34
	RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Sodium Bicarbonate w/20mM Hepes	34
	RPMI 1640 w/ L- Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red.....	35
	RPMI 1640 w/ L-Glutamine.....	34
	RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes	34
	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	34
	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose.....	35
	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	34
	RPMI 1640 w/ stable Glutamine.....	34
	RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes.....	34
	RPMI 1640 w/o L-Glutamine	34
	RPMI 1640 w/o L-Glutamine	34
	RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes	34
	RPMI 1640 w/o L-Glutamine w/o Folic Acid	34
	RPMI 1640 w/o L-Glutamine w/o Phenol Red	34
	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate.....	34
S	Schneider's Drosophila Medium.....	35
	Sheep Serum	18
	Sodium Bicarbonate 7.5 %	42
	Sodium Bicarbonate, cell culture tested	42
	Sodium Chloride	42
	Sodium Chloride (for dilution 9 g/l)	42
	Sodium Chloride Salt Solution 0.85 %	42
	Sodium Pyruvate 100 mM.....	42
T	Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/ Phenol red	47
	Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red.....	47
	Trypsin 0.25% - EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	47
	Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	47
	Trypsin 1:250 powder (porcine)	47
	Trypsin 2.5 % in HBSS w/o Calcium w/o Magnesium w/o Phenol Red.....	47
	Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
	Trypsin-EDTA 10X	47
	Trypsin-EDTA 1X in solution w/o Calcium w/o Magnesium w/ Phenol Red.....	47
	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
V	Versene.....	42

Glossary (by catalog N°)

CAT N°	Unit / Size	Product	page
A0296-1000	1000 ml	BSA 30%	17
D1010-1000	1000 ml	Bioguard-S	51
D1020-100	100 ml	Bioguard-A	51
L0008-020	20 ml	Kanamycin Solution 100X	44
L0008-100	100 ml	Kanamycin Solution 100X	44
L0009-050	50 ml	Amphotericin B	44
L0009-100	100 ml	Amphotericin B	44
L0010-020	20 ml	Antibiotic-Antimycotic 100X	44
L0010-100	100 ml	Antibiotic-Antimycotic 100X	44
L0011-010	10 ml	Gentamicin Sulfate 10 mg/ml	44
L0011-100	100 ml	Gentamicin Sulfate 10 mg/ml	44
L0012-010	10 ml	Gentamicin Sulfate 50 mg/ml	44
L0012-100	100 ml	Gentamicin Sulfate 50 mg/ml	44
L0014-100	100 ml	Glutamine-Penicillin-Streptomycin 100X	44
L0015-020	20 ml	G-418 (Geneticin) Solution	44
L0015-100	100 ml	G-418 (Geneticin) Solution	44
L0018-100	100 ml	Penicillin-Streptomycin	45
L0022-020	20 ml	Penicillin-Streptomycin Solution 100X	45
L0022-100	100 ml	Penicillin-Streptomycin Solution 100X	45
L0040-010	10 ml	Colcemid 10 µg/ml in PBS	50
L0040-020	20 ml	Colcemid 10 µg/ml in PBS	50
L0040-050	50 ml	Colcemid 10 µg/ml in PBS	50
L0042-500	500 ml	BME w/ Earle's Salts w/o L-Glutamine	24
L0060-500	500 ml	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate	26
L0064-500	500 ml	DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate	26
L0065-500	500 ml	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/ 25 mM Hepes	26
L0066-500	500 ml	DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate	26
L0090-500	500 ml	DMEM - F12 w/o L- Glutamine w/o Hepes	26
L0091-500	500 ml	DMEM - F12 w/o L-Glutamine w/o Hepes w/o Glucose	26
L0092-500	500 ml	DMEM - F12 w/ stable Glutamine w/ 15 mM Hepes	26
L0093-500	500 ml	DMEM - F12 w/ L-Glutamine w/ 15 mM Hepes	27
L0094-500	500 ml	DMEM - F12 w/o L-Glutamine w/ 15 mM Hepes	27
L0095-500	500 ml	DMEM - F12 w/ L-Glutamine w/ 25 mM Hepes	27
L0096-500	500 ml	DMEM - F12 w/o L-Glutamine w/ 25 mM Hepes	27
L0100-500	500 ml	DMEM High Glucose w/o L-Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	25
L0101-500	500 ml	DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate	25
L0102-500	500 ml	DMEM High Glucose w/ L-Glutamine w/o Sodium Pyruvate	25
L0103-500	500 ml	DMEM High Glucose w/ stable Glutamine w/ Sodium Pyruvate	25
L0104-500	500 ml	DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate	25
L0106-500	500 ml	DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate	25
L0107-500	500 ml	DMEM High Glucose w/ stable Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	25
L0135-500	500 ml	Ham's F12 w/ L-Glutamine	28
L0136-500	500 ml	Ham's F12 w/o L-Glutamine	28
L0138-500	500 ml	Ham's F14 w/ 6g/L Glucose w/ 1mg/L ATP	29
L0140-500	500 ml	Ham's F10 w/ L-Glutamine	28
L0145-500	500 ml	Ham's F10 w/o L-Glutamine	28
L0180-100	100 ml	HEPES Buffer 1 M	42
L0180-500	500 ml	HEPES Buffer 1 M	42
L0190-500	500 ml	IMDM w/ L- Glutamine w/ 25mM Hepes	29
L0191-500	500 ml	IMDM w/ stable Glutamine w/ 25mM Hepes	29
L0192-500	500 ml	IMDM w/o L-Glutamine w/o Hepes	29
L0207-500	500 ml	Schneider's Drosophila Medium	35
L0210-500	500 ml	McCoy's 5A w/ L-Glutamine	30
L0221-500	500 ml	Glasgow MEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth	27
L0222-500	500 ml	Glasgow MEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth	27
L0300-500	500 ml	Leibovitz L15 Medium w/o L-Glutamine	30
L0330-500	500 ml	Medium 199 w/ Hanks' Salts w/ L-Glutamine	31
L0355-500	500 ml	Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate	31
L0356-500	500 ml	Medium 199 w/ Earle's Salts w/o L-Glutamine	31
L0361-500	500 ml	Medium 199 w/ Earle's Salts w/ Stable Glutamine w/ 25 mM Hepes	31
L0415-500	500 ml	MEM w/ Earle's Salts w/ L-Glutamine	32
L0416-500	500 ml	MEM w/ Earle's Salts w/ stable Glutamine	32
L0430-500	500 ml	MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA	32
L0440-500	500 ml	MEM w/ Earle's Salts w/o L-Glutamine	32
L0444-500	500 ml	MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM Hepes	32

CAT N°	Unit / Size	Product	page
L0445-500	500 ml	MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	32
L0465-500	500 ml	MEM w/ Hanks' Salts Solution w/o L-Glutamine	33
L0470-500	500 ml	MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes	33
L0475-500	500 ml	MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	33
L0476-500	500 ml	MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	33
L0490-500	500 ml	RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes	34
L0492-500	500 ml	RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Sodium Bicarbonate w/20mM Hepes	34
L0495-500	500 ml	RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes	34
L0496-500	500 ml	RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes	34
L0498-500	500 ml	RPMI 1640 w/ stable Glutamine	34
L0500-100	100 ml	RPMI 1640 w/ L-Glutamine	34
L0500-500	500 ml	RPMI 1640 w/ L-Glutamine	34
L0501-100	100 ml	RPMI 1640 w/o L-Glutamine	34
L0501-500	500 ml	RPMI 1640 w/o L-Glutamine	34
L0503-500	500 ml	RPMI 1640 w/o L-Glutamine w/o Folic Acid	34
L0505-500	500 ml	RPMI 1640 w/o L-Glutamine w/o Phenol Red	34
L0560-100	100 ml	Lymphosep, Lymphocyte Separation Media	50
L0560-500	500 ml	Lymphosep, Lymphocyte Separation Media	50
L0601-500	500 ml	Earle's Balanced Salts Solution w/o Calcium w/o Magnesium	40
L0602-500	500 ml	Earle's Balanced Salts Solution w/ Calcium w/ Magnesium	40
L0605-500	500 ml	HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	41
L0606-500	500 ml	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red	41
L0607-500	500 ml	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	41
L0611-500	500 ml	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red	41
L0612-500	500 ml	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red	41
L0615-100	100 ml	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
L0615-1000	1L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
L0615-500	500 ml	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
L0615-C10LS	10 L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
L0625-1000	1L	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	39
L0625-500	500 ml	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	39
L0630-100	100 ml	Versene	42
L0640-500	500 ml	Sodium Chloride Salt Solution 0.85 %	42
L0642-100	100 ml	Sodium Pyruvate 100 mM	42
L0642-500	500 ml	Sodium Pyruvate 100 mM	42
L0643-100	100 ml	Potassium Chloride 0.075 M	42
L0643-500	500 ml	Potassium Chloride 0.075 M	42
L0680-100	100 ml	Sodium Bicarbonate 7.5 %	42
L0909-100	100 ml	Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/ Phenol red	47
L0910-100	100 ml	Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
L0930-100	100 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	47
L0930-500	500 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	47
L0931-100	100 ml	Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	47
L0931-500	500 ml	Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	47
L0932-100	100 ml	Trypsin 0.25% - EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	47
L0940-100	100 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
L0940-500	500 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
L0941-100	100 ml	Recombinant Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47
L0950-100	100ml	Accutase	46
L0970-100	100 ml	Cell Culture Water Pyrogen free	51
L0970-1000	1000 ml	Cell Culture Water Pyrogen free	51
L0970-500	500 ml	Cell Culture Water Pyrogen free	51
L1203-500	500 ml	MCDB 151	35
L3010-005	5 ml	Phytohaemagglutinin M (PHA-M) liquid	50
L-X16-010	10 ml	Nanomycopullitine Concentrat 20 x	44
L-X16-100	100 ml	Nanomycopullitine Concentrat 20 x	44
P0017-1GR	1 g	G-418 SULFATE	44
P0017-5GR	5 g	G-418 SULFATE	44
P0018-1MU	1 M Units	Penicillin G Sodium Salt	45
P0030-N10L	For 10 L	BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	24
P0030-N1L	For 1 L	BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	24
P0058-N10L	For 10 L	CMRL w/ L-Glutamine w/o Sodium Bicarbonate	24
P0058-N1L	For 1 L	CMRL w/ L-Glutamine w/o Sodium Bicarbonate	24
P0061-N1L	1 L	DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	26
P0095-N10L	For 10 L	DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	27
P0095-N1L	For 1 L	DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	27

CAT N° Unit / Size Product.....page

P0102-N10L	For 10 L DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	25
P0102-N1L	For 1 L DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	25
P0103-N10L	For 10 L DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	25
P0103-N1L	For 1 L DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	25
P0120-N10L	For 10 L Glasgow MEM BHK21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	27
P0120-N1L	For 1 L Glasgow MEM BHK21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	27
P0134-N10L	For 10 L Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	28
P0134-N1L	For 1 L Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	28
P0146-N10L	For 10 L Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	28
P0146-N1L	For 1 L Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	28
P0153-N10L	For 10 L HBSS w/o Ca w/o Mg w/o Sodium Bicarbonate w/o Phenol Red	41
P0153-N1L	For 1 L HBSS w/o Ca w/o Mg w/o Sodium Bicarbonate w/o Phenol Red	41
P0154-N10L	For 10 L HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
P0154-N1L	For 1 L HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
P0191-N10L	For 10 L Iscove's Modified DMEM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	29
P0191-N1L	For 1 L Iscove's Modified DMEM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	29
P0350-N10L	For 10 L Leibovitz L 15 Medium w/ L-Glutamine	30
P0350-N1L	For 1 L Leibovitz L 15 Medium w/ L-Glutamine	30
P0390-N10L	For 10 L McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	30
P0390-N1L	For 1 L McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	30
P0410-N10L	For 10 L Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	31
P0410-N1L	For 1 L Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	31
P0420-N10L	For 10 L Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	31
P0420-N1L	For 1 L Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	31
P0425-N10L	For 10 L Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	31
P0425-N1L	For 1 L Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	31
P0440-N10L	For 10 L MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	33
P0440-N1L	For 1 L MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	33
P0450-N10L	For 10 L MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	32
P0450-N1L	For 1 L MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	32
P0451-N10L	For 10 L MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	32
P0451-N1L	For 1 L MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	32
P0515-N10L	For 10 L MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	33
P0515-N1L	For 1 L MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	33
P0750-N10L	For 10 L Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
P0750-N1L	For 1 L Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	39
P0860-N10L	For 10 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	34
P0860-N1L	For 1 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	34
P0870-N10L	For 10 L RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	34
P0870-N1L	For 1 L RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	34
P0871-N10L	For 10 L RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	34
P0871-N1L	For 1 L RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	34
P0876-N10L	For 10 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	35
P0876-N1L	For 1 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	35
P0880-N10L	For 10 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	34
P0880-N1L	For 1 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	34
P0883-N10L	For 10 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	35
P0883-N1L	For 1 L RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	35
P0940-100GR	100 g Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride	47
P1012-100GR	100 g L-Glutamine	49
P1012-KG	1 kg L-Glutamine	49
P1031-100GR	100 g L-Alanyl-L-Glutamine, stable Glutamine	49
P2035-500GR	500 g Potassium Chloride	42
P2060-500GR	500 g Sodium Bicarbonate, cell culture tested	42
P2064-N5L	For 5 l Sodium Chloride (for dilution 9 g/l)	42
P2066-KG	1 kg Sodium Chloride	42
P4020-1GR	1 g Gentamicin Sulfate	44
P4020-5GR	5 g Gentamicin Sulfate	44
P4030-250MG	250 mg Amphotericin B	44

CAT N° Unit / Size Product.....page

P5030-500GR	500 g D-Glucose Monohydrate -Dextrose, cell culture tested.....	49
P5030-KG	1 kg D-Glucose Monohydrate -Dextrose, cell culture tested.....	49
P5455-100GR	100 g HEPES, cell culture tested.....	42
P5455-500GR	500 g HEPES, cell culture tested.....	42
P5455-KG	1 kg HEPES, cell culture tested.....	42
P5957-100GR	100 g Trypsin 1:250 powder (porcine).....	47
P6140-100GR	100 g Human Serum Albumin.....	19
P6140-500GR	500 g Human Serum Albumin.....	19
P6140-KG	1 kg Human Serum Albumin.....	19
P6154-100GR	100 g BSA Lyophilised pH ~7.....	17
P6154-500GR	500 g BSA Lyophilised pH ~7.....	17
P6154-KG	1 kg BSA Lyophilised pH ~7.....	17
P6155-100GR	100 g BSA Protease Free Lyophilised.....	17
P6155-500GR	500 g BSA Protease Free Lyophilised.....	17
P6155-KG	1 kg BSA Protease Free Lyophilised.....	17
P6156-100GR	100 g BSA Fatty Acids Free Lyophilised.....	17
P6156-500GR	500 g BSA Fatty Acids Free Lyophilised.....	17
P6156-KG	1 kg BSA Fatty Acids Free Lyophilised.....	17
S0250-100	100 ml Bovine Serum (France Origin).....	18
S0250-500	500 ml Bovine Serum (France Origin).....	18
S0260-500	500 ml Bovine Plasma w/ Sodium Citrate.....	19
S0400-500	500 ml Calf Serum.....	18
S0500-500	500 ml Chicken Serum.....	18
S0750-500	500 ml New Born Calf Serum.....	18
S0800-500	500 ml Donor Foal Serum.....	18
S0900-500	500 ml Donor Horse Serum.....	18
S0910-100	100 ml Horse Serum.....	18
S0910-500	500 ml Horse Serum.....	18
S1300-100	100 ml FBS South Africa.....	12
S1300-500	500 ml FBS South Africa.....	12
S1520-100	100 ml FBS USA.....	12
S1520-500	500 ml FBS USA.....	12
S1530-100	100 ml FBS Japan approved.....	12
S1530-500	500 ml FBS Japan approved.....	12
S1560-100	100 ml FBS Chile, USDA approved.....	12
S1560-500	500 ml FBS Chile, USDA approved.....	12
S1580-100	100 ml FBS Uruguay.....	12
S1580-500	500 ml FBS Uruguay.....	12
S1600-100	100 ml FBS Central America, USDA approved.....	12
S1600-500	500 ml FBS Central America, USDA approved.....	12
S1650-100	100 ml FBS Mexico, USDA approved.....	12
S1650-500	500 ml FBS Mexico, USDA approved.....	12
S1780-100	100 ml FBS Ireland.....	12
S1780-500	500 ml FBS Ireland.....	12
S1810-100	100 ml FBS South America.....	12
S1810-500	500 ml FBS South America.....	12
S181B-100	100 ml FBS South America, Premium.....	13
S181B-500	500 ml FBS South America, Premium.....	13
S181D-100	100 ml FBS South America, Dialysed.....	15
S181D-500	500 ml FBS South America, Dialysed.....	15
S181F-100	100 ml FBS South America, Charcoal Stripped.....	14
S181F-500	500 ml FBS South America, Charcoal Stripped.....	14
S181G-100	100 ml FBS South America, Gamma Irradiated.....	14
S181G-500	500 ml FBS South America, Gamma Irradiated.....	14
S181H-100	100 ml FBS South America, Heat Inactivated.....	14
S181H-500	500 ml FBS South America, Heat Inactivated.....	14
S181L-100	100 ml FBS South America, Lipid Depleted.....	15
S181L-500	500 ml FBS South America, Lipid Depleted.....	15
S181M-100	100 ml FBS South America, Exosome Depleted.....	16
S181M-500	500 ml FBS South America, Exosome Depleted.....	16
S181R-100	100 ml FBS South America, Iron Supplemented.....	15
S181R-500	500 ml FBS South America, Iron Supplemented.....	15
S181S-100	100 ml FBS South America, Embryonic Stem Cells tested.....	16
S181S-500	500 ml FBS South America, Embryonic Stem Cells tested.....	16
S181T-100	100 ml FBS South America, Tetracycline free.....	16
S181T-500	500 ml FBS South America, Tetracycline free.....	16
S1820-100	100 ml FBS France.....	12
S1820-500	500 ml FBS France.....	13
S1860-100	100 ml FBS South America, Ultra-low Endotoxin.....	13
S1860-500	500 ml FBS South America, Ultra-low Endotoxin.....	13

CAT N°	Unit / Size	Product	page
S2000-500	500 ml	Goat Serum	18
S2140-100	100 ml	Rat Plasma w/ Lithium Heparin	19
S2150-050	50 ml	Rat Serum	18
S2150-100	100 ml	Rat Serum	18
S2150-500	500 ml	Rat Serum	18
S2160-050	50 ml	Mouse Serum	18
S2160-100	100 ml	Mouse Serum	18
S2160-500	500 ml	Mouse Serum	18
S2162-100	100 ml	Mouse Plasma w/ Lithium Heparin	18
S2170-500	500 ml	Donkey Serum	18
S2300-500	500 ml	Lamb Serum	18
S2350-500	500 ml	Sheep Serum	18
S2400-500	500 ml	Pig Serum	18
S2450-010	10 ml	Guinea Pig Serum	19
S2450-100	100 ml	Guinea Pig Serum	19
S2500-500	500 ml	Rabbit Serum (France Origin)	18
S4180-100	100 ml	Human Plasma pooled	19
S4180-500	500 ml	Human Plasma pooled	19
S4190-100	100 ml	Human Serum AB male HIV tested	19
S4200-100	100 ml	Human Serum HIV tested	19
X0112-500	500 ml	Earle's Balanced Salts 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	40
X0113-500	500 ml	Earle's Balanced Salts 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate	40
X0507-500	500 ml	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	41
X0509-500	500 ml	HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
X0510-500	500 ml	HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	41
X0513-500	500 ml	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	41
X0515-100	100 ml	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	39
X0515-500	500 ml	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	39
X0520-500	500 ml	Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium	39
X0550-100	100 ml	L-Glutamine 100X, 200mM	49
X0551-100	100 ml	Glutamine stable 100X, 200mM	49
X0556-100	100 ml	MEM Vitamins 100X w/o L-Glutamine	48
X0557-100	100 ml	MEM non Essential Amino Acids 100X w/o L-Glutamine	48
X0915-100	100 ml	Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	47

Contact.

HUBERLAB.

committed to science

OneStop. OneShop – HUBERLAB. bietet das Rundum-Sorglos-Paket für alle Bedürfnisse im Labor.

Profitieren Sie von unseren langjährigen Partnerschaften zu Top-Lieferanten.

Als Vollversorger für das Labor lässt unser umfassendes Sortiment keine Wünsche offen.

OneStop. OneShop – HUBERLAB. Nous offre le package sans souci pour tous les besoins de votre laboratoire.

Profitez de nos partenariats de longue date avec les meilleurs fournisseurs.

En tant que fournisseur complet pour le laboratoire, notre gamme complète ne laisse rien à désirer.

OneStop. OneShop – HUBERLAB. offers the all-included service package for all of your laboratory requirements.

Benefit from our long-standing partnerships with top-suppliers.

As a full-range supplier for the laboratory, our comprehensive range leaves nothing to be desired.



Wir beraten Sie gerne persönlich
Nous vous conseillons personnellement
We'll be happy to advise you personally



T +41 61 717 99 77



F +41 61 711 93 42



info.huberlab.ch



www@huberlab.ch



Let's chat
www.huberlab.ch



HUBERLAB. AG
Industriestrasse 123
4147 Aesch