

biowest
The Serum Specialist



General Catalog **2014-2015**

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BUREAU VERITAS
Certification



Certification

Attribuée à

BIOWEST
RUE DE LA CAILLE
49340 NUAILLE
France

Bureau Veritas Certification certifie que le système de management de l'organisme susmentionné a été évalué et jugé conforme aux exigences de la norme :

NF EN ISO 9001 : 2008

Domaine d'activité

FABRICATION ET VENTE DE SERUMS ET REACTIFS POUR LA CULTURE CELLULAIRE.

MANUFACTURING AND SALES OF SERA AND REAGENTS INTENDED FOR CELL CULTURE.

Date de certification originale : *27/01/2006*

Sous réserve du fonctionnement continu et satisfaisant du système de management de l'organisme, ce certificat est valable jusqu'au : *14/12/2014*

Date : *15/12/2011*
Numéro d'affaire : *6007775*
Numéro de certificat : *FR001491-1*

Etienne CASAL
Directeur Général



Bureau Veritas Certification France - 60, avenue du Général de Gaulle - 92046 Paris La Défense

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.

We are certified ISO 9001 and 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.

Vertical integration and full 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, as different fields of application require different specifications and origins at different price levels.

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

Pure efficiency

- ✓ Best **quality and service** available on the market
- ✓ Biggest **range of serum sources**
- ✓ Commitment to addressing your **special requests**
- ✓ **Full traceability and security** due to vertical integration

Quality system

Biowest guarantees the best quality : We are certified ISO 9001 version 2008. 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.

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.

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 foetus via cardiac puncture. Each manufactured batch is rigorously controlled, from the collection of 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 shipment 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 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 regular 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 allowed supply available for the different markets.

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

EDQM certified FBS is your guaranty that the origin and the manufacturing

EDQM certificate



Certification of Substances Division

Certificate of suitability No. R1-CEP 2007-074-Rev 00

- 1 *Name of the substance:*
2 **FOETAL BOVINE SERUM**
- 3 *Name of holder:*
4 **BIO WEST SAS**
5 Rue De La Caille
6 France-49340 Nuailié
- 7 *Site(s) of production:*
8 **BIO WEST SAS**
9 Rue De La Caille
10 France-49340 Nuailié


THIS CERTIFICATE SUPERSEDES THE PREVIOUS CERTIFICATE R0-CEP 2007-074-REV 01

- 13 After examination of the information provided on the origin of raw material(s) and type of tissue(s) used and on the manufacturing process for this substance on the site(s) of production mentioned above, we certify that the substance **Foetal Bovine Serum** meets the criteria described in the current version of the monograph Products with risk of transmitting agents of animal spongiform encephalopathies no. 1483 of the European Pharmacopoeia, current edition including supplements.
- 18 – country (ies) of origin of source materials: Brazil, Chile, Costa Rica, Mexico, Panama, Paraguay and Uruguay
19
20 – nature of animal tissues used in manufacture: Foetal bovine blood
- 21 The submitted dossier must be updated after any significant change that may alter the quality, safety or efficacy of the substance, or that may alter the risk of transmitting animal spongiform encephalopathy agents.
- 24 Manufacture of the substance shall take place in accordance with a suitable quality assurance system such as ISO 9001 and HACCP, and in accordance with the dossier submitted.
- 26 Failure to comply with these provisions will render this certificate void.
- 27 The certificate is valid provided that there has been no deterioration in the TSE status of the country(ies) of origin of the source material.

Address: 7, allée Kastner, CS 30026
F - 67081 Strasbourg (France)
Telephone: 33 (0) 3 88 41 30 30 - Fax: 33 (0) 3 88 41 27 71 - e-mail: cep@edqm.eu
Internet : <http://www.edqm.eu>

29 This certificate is renewed from **18 January 2013** according to the provisions of Resolution AP-CSP (07) 1, and of Directive 2001/83/EC and Directive 2001/82/EC and any subsequent amendment, and the related guidelines.

32 This certificate has:
33 lines.


On behalf of the
Director of EDQM



Strasbourg, 19 December 2012

DECLARATION OF ACCESS (to be filled in by the certificate holder under their own responsibility)

Bio West SAS, as holder of the certificate of suitability
R1-CEP 2007-074-Rev 00 for Foetal Bovine Serum

hereby authorises _____
(name of the pharmaceutical company)

to use the above-mentioned certificate of suitability in support of their application(s) for the following Marketing Authorisation(s): (name of product(s) and marketing number(s), if known)

The holder also certifies that no significant changes to the operations as described in the CEP dossier have been made since the granting of this version of the certificate.

Date and Signature (of the CEP holder):

Address: 7, allée Kastner, CS 30026
F - 67081 Strasbourg (France)
Telephone: 33 (0) 3 88 41 30 30 - Fax: 33 (0) 3 88 41 27 71 - e-mail: cep@edqm.eu
Internet : <http://www.edqm.eu>

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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 applicable in all the signatory states of the Convention for the elaboration of a European Pharmacopoeia.

Biowest can provide FBS sterile filtered and packed in its facility that meets the criteria described in the current version of the monograph products with 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 the serum EDQM certified are Panama, Costa Rica, Uruguay, Paraguay, Brazil, Chile and Mexico.

Filtration and Packaging

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

Biowest products are packaged via an aseptic filling process for which each step has been realised to ensure the production of a product meeting the industry standard sterility 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.

> Final Filter Size : Triple 0.1 micron

Sterility

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

Sterility test procedure is based on the European Pharmacopoeia or US Pharmacopoeia depending on the locale 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. All sera are tested for the absence of aerobic and anaerobic bacteria, fungi, and yeast.

Mycoplasma

Each final product batch is tested for 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 limits of method detection.

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 revelation 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.

Haemoglobin

To verify that proper collection and processing procedures have been followed, 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.

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

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. 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.

When product is stored properly, optimal product performance is guaranteed. Animal Sera and Plasma are stored at -20°C.

Expiry 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.

Specialty Fetal Bovine Serum

Heat Inactivation (56°C-30 mn) :

This treatment allows to destroy the complement acting in the immune system to avoid an interference with some experimentation, in particular the tests of immunology. It allows also to inactivate viruses and to destroy some bacterial contaminants such as the mycoplasma.

For orders please add **code H**
Ex : FBS origin South America : S1810
Heat inactivated : S181H

Gamma Irradiation :

The serum is gamma irradiated at 25 kGy. 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 the viruses of foot and mouth disease, vesicular stomatitis, rinderpest, peste des petits ruminants, Rift valley fever, bluetongue... while maintaining growth promotion potential.

For orders please add **code G**
Ex : FBS origin Chile : S1560
Gamma Irradiated : S156G

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 useful where there endogenous molecules may interfere with experimental works. This serum may show some reduced growth promotion ability for cells requiring the presence of certain hormones (Biblio: Northbio).

For orders please add **code F**
Ex : FBS origin France : S1820
Charcoal Stripped : S182F

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.

For orders please add **code D**

Ex : FBS origin Mexico : S1650

Dialysed : S165D

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 the solution is centrifuged. The supernatant contains the serum and the lipids are with the silica in the pellet.

For orders please add **code L**

Ex : FBS origin South America : S1810

Lipid Depleted : S181L

Tetracycline

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

For orders please add **code T**

x : FBS origin EU approved : S1800

Tetracycline free : S180T

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.

For orders please add **code R**

Ex : Calf Serum : S0400

Iron supplemented : S040R

FETAL BOVINE SERUM

FBS South America

Cat N° :	S1810-100 S1810-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America, Premium

Cat N° :	S181B-100 S181B-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America, Ultra-low Endotoxin

Cat N° :	S1860-100 S1860-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS France

Cat N° :	S1820-100 S1820-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS Chile, USDA approved

Cat N° :	S1560-100 S1560-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS Uruguay

Cat N° :	S1580-100 S1580-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS Central America, USDA approved

Cat N° :	S1600-100 S1600-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS Mexico, USDA approved

Cat N° :	S1650-100 S1650-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS Australia, USDA approved

Cat N° :	S1700-100 S1700-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS USA

Cat N° :	S1520-100 S1520-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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SPECIALTY FETAL BOVINE SERUM

FBS South America Heat Inactivated

Cat N° :	S181H-100 S181H-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America Gamma Irradiated

Cat N° :	S181G-100 S181G-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America Charcoal Stripped

Cat N° :	S181F-100 S181F-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America Dialysed

Cat N° :	S181D-100 S181D-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FETAL BOVINE SERUM WITH TREATMENTS

FBS South America Lipid Depleted

Cat N° :	S181L-100 S181L-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America Tetracycline Free

Cat N° :	S181T-100 S181T-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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FBS South America Iron Supplemented

Cat N° :	S181R-100 S181R-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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> All origins can be treated, please inquire about the possibilities.

biowest) Instant FBS



Instant FBS is a powdered, soluble Foetal Bovine Serum offering many unique benefits.

Easy to use :

- Dilution in cell culture water or directly in cell culture Media
- 3 g of instant FBS is equivalent to 50 ml of liquid FBS
- 3 g pre-packed in tubes for 500 ml Media (10% FBS)

Quality :

- Same quality as liquid FBS
- No more aliquoting and refreezing of FBS
- Minimized risk of contamination

Storage :

- Instant FBS is stored at +2/+8°C. The shelf life is 3 years.

Environmental :

- No more shipment on dry ice, reducing cost and CO₂ pollution
- No storage in energy consuming freezers in the lab
- Less weight and volume transported ; no freezer truck, for reduced transport cost and less environmental contamination

Instant Sterile FBS South America

Cat N° :	S381G-N0.05L S381G-N0.5L	Unit/Size :	3 g 30 g	State : Powder	Storage : +2/+8°C	Life : 36 months
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Instant Sterile FBS France

Cat N° :	S382G-N0.05L S382G-N0.5L	Unit/Size :	3 g 30 g	State : Powder	Storage : +2/+8°C	Life : 36 months
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ANIMAL SERUM

Bovine Serum (France Origin)

Cat N° :	S0250-1000 S0250-500	Unit/Size :	100 ml 500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Calf Serum

Cat N° :	S0400-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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New Born Calf Serum

Cat N° :	S0750-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Donor Horse Serum

Cat N° :	S0900-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Fetal Horse Serum

Cat N° :	S0960-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Donor Foal Serum

Cat N° :	S0800-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Donkey Serum

Cat N° :	S2170-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Goat Serum

Cat N° :	S2000-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Lamb Serum

Cat N° :	S2300-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Sheep Serum

Cat N° :	S2350-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Pig Serum

Cat N° :	S2400-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Chicken Serum

Cat N° :	S0500-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Rabbit Serum

Cat N° :	S2500-500	Unit/Size :	500 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Rat Serum

Cat N° :	S2150-010 S2150-100	Unit/Size :	10 ml 100 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Mouse Serum

Cat N° :	S2160-010 S2160-100	Unit/Size :	10 ml 100 ml	State : Frozen	Storage : -20°C	Life : 60 months
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Guinea Pig Serum

Cat N° :	S2450-010 S2450-100	Unit/Size :	10 ml 100 ml	State : Frozen	Storage : -20°C	Life : 60 months
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> All sera can be treated, please inquire about the possibilities

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

ANIMAL PLASMA

Bovine Plasma w/ Sodium Citrate

Cat N° :	S2600-500	Unit/Size :	500 ml	State :	Frozen	Storage :	-20°C	Life :	48 months
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Rabbit Plasma w/ EDTA

Cat N° :	S2600-500	Unit/Size :	500 ml	State :	Frozen	Storage :	-20°C	Life :	48 months
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Rat Plasma w/ Lithium Heparin

Cat N° :	S2140-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	48 months
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Mouse Plasma w/ Lithium Heparin

Cat N° :	S2162-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	48 months
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Dog (Canine) Plasma w/ Lithium Heparin

Cat N° :	S2920-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	48 months
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- 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 volunteers 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 France, Germany, Canada or USA.

- Important : Products of human origin should be considered potentially infectious and handled accordingly.
- Human serum is available with treatments on request.

Human Serum AB male HIV tested

Cat N° :	S4190-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	60 months
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Human Serum HIV tested

Cat N° :	S4200-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	60 months
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Human Plasma pooled

Cat N° :	S4180-100 S4180-500	Unit/Size :	1000 ml 500 ml	State :	Frozen	Storage :	-20°C	Life :	48 months
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Human Serum Albumin

Cat N° :	P6140-100GR P6140-500GR P6140-KG	Unit/Size :	100 g 500 g 1 kg	State :	Powder	Storage :	+2/+8°C	Life :	48 months
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> Human Serum is available with treatments on request.

BOVINE SERUM ALBUMIN

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	Unit/Size :	100 g	State : Powder	Storage : +2/+8°C	Life : 36 months
	P6154-500GR		500 g			
	P6154-KG		1 Kg			

Bovine Serum Albumin Protease Free

Cat N° :	P6155-100GR	Unit/Size :	100 g	State : Powder	Storage : +2/+8°C	Life : 36 months
	P6155-500GR		500 g			
	P6155-KG		1 Kg			

Bovine Serum Albumin Fatty Acids Free

Cat N° :	P6156-100GR	Unit/Size :	100 g	State : Powder	Storage : +2/+8°C	Life : 36 months
	P6156-500GR		500 g			
	P6156-KG		1 Kg			

Bovine Serum Albumin 30 % liquide

Cat N° :	A0296-1000	Unit/Size :	1000 ml	State : Liquid	Storage : +2/+8°C	Life : 36 months
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- Other species available on request
- BSA charcoal stripped available on request

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 realisation 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 is 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 best quality. It is of WFI quality, produced in several steps including centrifugal distillation and tested for endotoxin. 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 20 years Biowest has produced for cell culture following strict environmental conditions regarding cleanliness and moisture. Humidity and temperature are monitored constantly to guaranty 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 (following the medium). 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 allow also the testing of long term shelf-life studies and also control in response to customer inquiries.



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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	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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BME w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0044-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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BME w/ Hanks' Salts w/o L-Glutamine

Cat N° :	L0046-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0030-N10L P0030-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	48 months
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> Composition available on our website www.biowest.net

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

CMRL 1066

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

CMRL 1066 w/o L-Glutamine

Cat N° :	L0053-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0058-N10L P0058-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	24 months
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> Composition available on our website www.biowest.net

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

DULBECCO'S MODIFIED EAGLE MEDIUM

Dulbecco's Modified Eagle Medium (DMEM) 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	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM High Glucose w/ L-Glutamine w/o Sodium Pyruvate

Cat N° :	L0102-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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DMEM High Glucose w/ stable Glutamine w/ Sodium Pyruvate

Cat N° :	L0103-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate

Cat N° :	L0104-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate

Cat N° :	L0106-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM High Glucose w/o L-Glutamine w/ 25mM HEPES w/o Sodium Pyruvate

Cat N° :	L0100-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM High Glucose w/ stable Glutamine w/ 25mM HEPES w/o Sodium Pyruvate

Cat N° :	L0107-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate

Cat N° :	P0102-N10L P0102-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate

Cat N° :	P0103-N10L P0103-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate

Cat N° :	L0064-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM low Glucose

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

Cat N° :	L0065-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate

Cat N° :	L0066-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate

Cat N° :	P0061-N1L	Unit/Size :	For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM - F12 w/o L-Glutamine w/o Hepes w/o Glucose

Cat N° :	L0091-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM - F12 w/ stable Glutamine w/ 15 mM Hepes

Cat N° :	L0092-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM - F12 w/ L-Glutamine w/ 15 mM Hepes

Cat N° :	L0093-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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DMEM - F12 w/o L-Glutamine w/ 15 mM Hepes

Cat N° :	L0094-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM - F12 w/ L-Glutamine w/ 25 mM Hepes

Cat N° :	L0095-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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DMEM - F12 w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0096-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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DMEM - Ham's F12

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

Cat N° :	P0095-N10L P0095-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 36 months
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> Composition available on our website www.biowest.net

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

FISHER'S MEDIUM

Fisher's medium supports the growth and maintenance of Murine Leukemic cells

Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0105-N10L P0105-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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> Composition available on our website www.biowest.net

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

GLASGOW MEM BHK 21

GMEM was originally formulated for BHK 21 cells growing. 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	State : Liquid	Storage : +2/+8°C	Life : 12 months
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GMEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth

Cat N° :	L0222-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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GMEM BHK21 w/ L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth

Cat N° :	P0120-N10L P0120-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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Ham's F10 w/o L-Glutamine

Cat N° :	L0145-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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Ham's F10 w/ L-Glutamine w/ 25 mM Hepes

Cat N° :	L0130-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0146-N10L P0146-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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Ham's F12 w/o L-Glutamine

Cat N° :	L0136-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0134-N10L P0134-N1L	Unit/Size :	For 10 L For 1 L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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 in Calcium chloride and Ascorbic Acid.

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

Cat N° :	L0138-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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 (DME) 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	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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IMDM w/stable Glutamine w/ 25mM Hepes

Cat N° :	L0191-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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IMDM w/o L-Glutamine w/o Hepes

Cat N° :	L0192-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes

Cat N° :	P0191-N10L P0191-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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LEIBOVITZ L-15 MEDIUM

Leibovitz L 15 Medium w/ L-Glutamine

Cat N° :	P0350-N10L P0350-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State : Liquid	Storage : +2/+8°C	Life : 12 months
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McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0390-N10L P0390-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 36 months
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> Composition available on our website www.biowest.net

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

MEDIUM 199

A longterm cultivation of cells required addition of a serum. When properly supplemented, Medium 199 has broad species applicability, particularly for 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	State : Liquid	Storage : +2/+8°C	Life : 18 months
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Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate

Cat N° :	L0355-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 18 months
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MEDIUM 199

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

Cat N° :	L0356-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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Medium 199 w/ Earle's Salts w/ stable Glutamine w/ 25 mM Hepes

Cat N° :	L0361-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0410-N10L P0410-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0420-N10L P0420-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes

Cat N° :	P0425-N10L P0425-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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MEM w/ Earle's Salts w/ stable Glutamine

Cat N° :	L0416-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA

Cat N° :	L0430-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM w/ Earle's Salts w/o L-Glutamine

Cat N° :	L0440-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM w/ Earle's Salts

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

Cat N° :	L0444-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0445-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate

Cat N° :	P0450-N10L P0450-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate

Cat N° :	P0451-N10L P0451-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0470-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM w/ Hanks' Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate

Cat N° :	P0515-N10L P0515-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides

Cat N° :	L0476-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM Alpha modification

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

Cat N° :	P0440-N10L P0440-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 36 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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 L0500-1000	Unit/Size :	100 ml 500 ml 1000 ml	State : Liquid	Storage : +2/+8°C	Life : 12 months
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RPMI 1640 w/o L-Glutamine

Cat N° :	L0501-100 L0501-500 L0501-1000	Unit/Size :	100 ml 500 ml 1000 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/ stable Glutamine

Cat N° :	L0498-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes

Cat N° :	L0495-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 12 months
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RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes

Cat N° :	L0496-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes

Cat N° :	L0490-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Na Bicarbonate w/20mM Hepes

Cat N° :	L0492-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/o L-Glutamine w/o Folic Acid

Cat N° :	L0503-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/o L-Glutamine w/o Phenol Red

Cat N° :	L0505-500	Unit/Size :	500 ml	State : Liquid	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 MEDIUM

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

Cat N° :	P0860-N10L P0860-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0870-N10L P0870-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red

Cat N° :	P0880-N10L P0880-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red

Cat N° :	P0871-N10L P0871-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM HEPES

Cat N° :	P0875-N10L P0875-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM HEPES w/o Phenol Red

Cat N° :	P0876-N10L P0876-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose

Cat N° :	P0883-N10L P0883-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : +2/+8°C	Life : 24 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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	State : Liquid	Storage : +2/+8°C	Life : 12 months
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> Composition available on our website www.biowest.net

- Other packagings available on request.
- For your special formulation, please contact us 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 use it with growth factors like EGF or hormones like hydrocortisone.

MCDB 105

Cat N° :	L1200-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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MCDB 131

Cat N° :	L1202-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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MCDB 151

Cat N° :	L1203-500	Unit/Size :	500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	12 months
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> Composition available on our website www.biowest.net

- MCDB media are only available on request with a minimum order quantity of 10 x 500 ml.
- Other packagings available on request.
- For your special formulation, please contact us we can make your custom made Media on request.

WILLIAM'S MEDIUM

William's Medium E w/ L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0960-N1L	Unit/Size :	For 1L	State :	Powder	Storage :	+2/+8°C	Life :	24 months
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William's Medium E w/o L-Glutamine w/o Sodium Bicarbonate

Cat N° :	P0970-N1L	Unit/Size :	For 1L	State :	Powder	Storage :	+2/+8°C	Life :	48 months
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> Composition available on our website www.biowest.net

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

Preparation Instructions for 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. Supplementation of the medium after your needs (sodium bicarbonate, L-glutamine...).
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.

Product Storage

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

Table of Addition of L-Glutamine

Cat n°	Description	P1012 addition of L-Glutamine powder g/ L	X0550 add ^o of L-Glutamine 100X, 200mM solution ml / L
L0042	BME w/ Earle's Salts w/o L-Glutamine	0,292	10
L0044	BME w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	0,292	10
L0046	BME w/ Hanks' Salts w/o L-Glutamine	0,292	10
L0053	CMRL 1066 w/o L-Glutamine	0,1	3,4
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
L0138	HAM's F14 w/ 6 g/L Glucose w/ 1mg/L ATP	0,292	10
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 Ribunocleosides 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
P0970	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	0,292	29,3

Cell Culture Media

Serum

Salt Solutions

Antibiotics

Cell Culture Reagents

Glossary

Table of Addition of Sodium Bicarbonate

Cat N°	Description	Add° of Sodium Bicarbonate powder P2060 g/ L	Add° of Sodium Bicarbonate 7,5% solution L0680 ml / L
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
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/ 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
P0105	Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	1,125	15
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
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
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

Cat N° Description

		Add° of Sodium Bicarbonate powder P2060	Add° of Sodium Bicarbonate 7,5% solution L0680
		g/ L	ml / L
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
P0875	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	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
P0960	Williams' Medium E w/ L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
P0970	Williams' Medium E w/o L-Glutamine w/o Sodium Bicarbonate	2,2	29,3
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

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents

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Serum



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. They were used for the first steps for preparing parts of organs and during the dissociation process or for isolation of cell suspensions. Further applications are the intermediate steps for cultivation of cells like washing, centrifugation, suspending and counting and also many analytical methods or biochemical treatments. Principally these solutions should be used to keep the cells only for minutes or maximal some hours into suspension. These buffers and solutions are no cell culture media.

They are composed of a Phosphate buffer system, sodium chloride to adjust the osmolarity and perhaps 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.

SUMMARY

Dulbecco's Phosphate Buffered Saline DPBS	38
Earle's Balanced Salt Solutions EBSS	38
Hanks' Balanced Salt Solutions HBSS	39
Hepes	40
Other Salt Solutions & Salts	40

DULBECCO'S PHOSPHATE BUFFERED SALINE DPBS

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

Cat N° :	L0615-1000 L0615-500 L0615-100	Unit/Size :	1000 ml 500 ml 100 ml	State : Liquid	Storage : 20°C	Life : 48 months
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Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium (non sterile)

Cat N° :	L0615-C10L	Unit/Size :	10 L	State : Liquid	Storage : +2/+8°C	Life : 6 months
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Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium

Cat N° :	L0625-1000 L0625-500	Unit/Size :	1000 ml 500 ml	State : Liquid	Storage : +2/+8°C	Life : 48 months
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Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium

Cat N° :	X0515-500 X0515-100	Unit/Size :	500 ml 100 ml	State : Liquid	Storage : 20°C	Life : 48 months
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Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium

Cat N° :	X0520-500	Unit/Size :	500 ml	State : Liquid	Storage : 20°C	Life : 48 months
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Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium

Cat N° :	P0750-N10L P0750-N1L	Unit/Size :	For 10L For 1L	State : Powder	Storage : 20°C	Life : 48 months
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> Composition available on our website www.biowest.net

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

EARLE'S BALANCED SALT SOLUTIONS EBSS

Earle's Balanced Salts Solution w/o Calcium w/o Magnesium

Cat N° :	L0601-500	Unit/Size :	500 ml	State : Liquid	Storage : 20°C	Life : 48 months
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Earle's Balanced Salts Solution w/ Calcium w/ Magnesium

Cat N° :	L0602-500	Unit/Size :	500 ml	State : Liquid	Storage : 20°C	Life : 48 months
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Earle's Balanced Salts 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate

Cat N° :	X0112-500	Unit/Size :	500 ml	State : Liquid	Storage : 20°C	Life : 48 months
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Earle's Balanced Salts 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate

Cat N° :	X0113-500	Unit/Size :	500 ml	State : Liquid	Storage : 20°C	Life : 48 months
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> Composition available on our website www.biowest.net

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

HANKS' BALANCED SALT SOLUTIONS HBSS

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

Cat N° :	L0605-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red

Cat N° :	L0606-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red

Cat N° :	L0607-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red

Cat N° :	L0608-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red

Cat N° :	L0611-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red

Cat N° :	L0612-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red

Cat N° :	X0507-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red

Cat N° :	X0509-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red

Cat N° :	X0510-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red

Cat N° :	X0513-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red - For 10L

Cat N° :	P0153-N10L P0153-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	20°C	Life :	48 months
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HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red - For 10L

Cat N° :	P0154-N10L P0154-N1L	Unit/Size :	For 10L For 1L	State :	Powder	Storage :	20°C	Life :	48 months
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> Composition available on our website www.biowest.net

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

HEPES

HEPES Buffer 1 M

Cat N° :	L0180-100 L0180-500	Unit/Size :	100 ml 500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	36 months
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HEPES, cell culture tested

Cat N° :	P5455-100GR P5455-500GR P5455-KG	Unit/Size :	100 g 500 g 1000 g	State :	Powder	Storage :	20°C	Life :	24 months
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- Other packagings available on request.

OTHER SALT SOLUTIONS & SALTS

Sodium Chloride Salt Solution 0.85 %

Cat N° :	L0640-500	Unit/Size :	500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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Sodium Chloride (for dilution 8.5 g/l)

Cat N° :	P2065-N5L	Unit/Size :	For 5L	State :	Powder	Storage :	20°C	Life :	48 months
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Sodium Chloride (for dilution 9 g/l)

Cat N° :	P2064-N5L	Unit/Size :	For 5L	State :	Powder	Storage :	20°C	Life :	48 months
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Sodium Pyruvate 100 mM

Cat N° :	L0642-100 L0642-500	Unit/Size :	100 ml 500 ml	State :	Liquid	Storage :	+2/+8°C	Life :	48 months
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Potassium Chloride 0.075 M

Cat N° :	L0643-100 L0643-500	Unit/Size :	100 ml 500 ml	State :	Liquid	Storage :	20°C	Life :	48 months
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Potassium Chloride

Cat N° :	P2035-500GR	Unit/Size :	500 g	State :	Powder	Storage :	20°C	Life :	36 months
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Versene

Cat N° :	L0630-100	Unit/Size :	100 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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Sodium Bicarbonate 7.5 %

Cat N° :	L0680-100	Unit/Size :	100 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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Sodium Bicarbonate, cell culture tested

Cat N° :	P2060-500GR	Unit/Size :	500 g	State :	Powder	Storage :	20°C	Life :	48 months
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- Other Salts available on request.

> Composition available on our website www.biowest.net

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



Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents

Glossary

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 in all three stages of development without interfering with the eukaryotic metabolism.

ANTIBIOTICS

Kanamycin Solution 100X

Cat N° :	L0008-020 L0008-100	Unit/Size :	20 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Amphotericin B

Cat N° :	L0009-050 L0009-100	Unit/Size :	50 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Antibiotic-Antimycotic 100X

Cat N° :	L0010-020 L0010-100	Unit/Size :	20 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Gentamicin Sulfate 10 mg/ml

Cat N° :	L0011-010 L0011-100	Unit/Size :	10 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Gentamicin Sulfate 50 mg/ml

Cat N° :	L0012-010 L0012-100	Unit/Size :	10 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Gentamicin Sulfate

Cat N° :	P4020-1GR P4020-5GR	Unit/Size :	1 g 5 g	State :	Powder	Storage :	+2/+8°C	Life :	48 months
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Glutamine-Penicillin-Streptomycin 100X

Cat N° :	L0014-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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G-418 (Geneticin) Solution

Cat N° :	L0015-010 L0015-100	Unit/Size :	10 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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G-418 Sulfate

Cat N° :	P0017-1GR P0017-5GR	Unit/Size :	1 g 5 g	State :	Powder	Storage :	+2/+8°C	Life :	36 months
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Penicillin-Streptomycin

Cat N° :	L0018-020 L0018-100	Unit/Size :	20 ml 100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Penicillin-Streptomycin Solution 100X

Cat N° :	L0022-020 L0022-100	Unit/Size :	20 ml 100 ml	State : Frozen	Storage : -20°C	Life : 24 months
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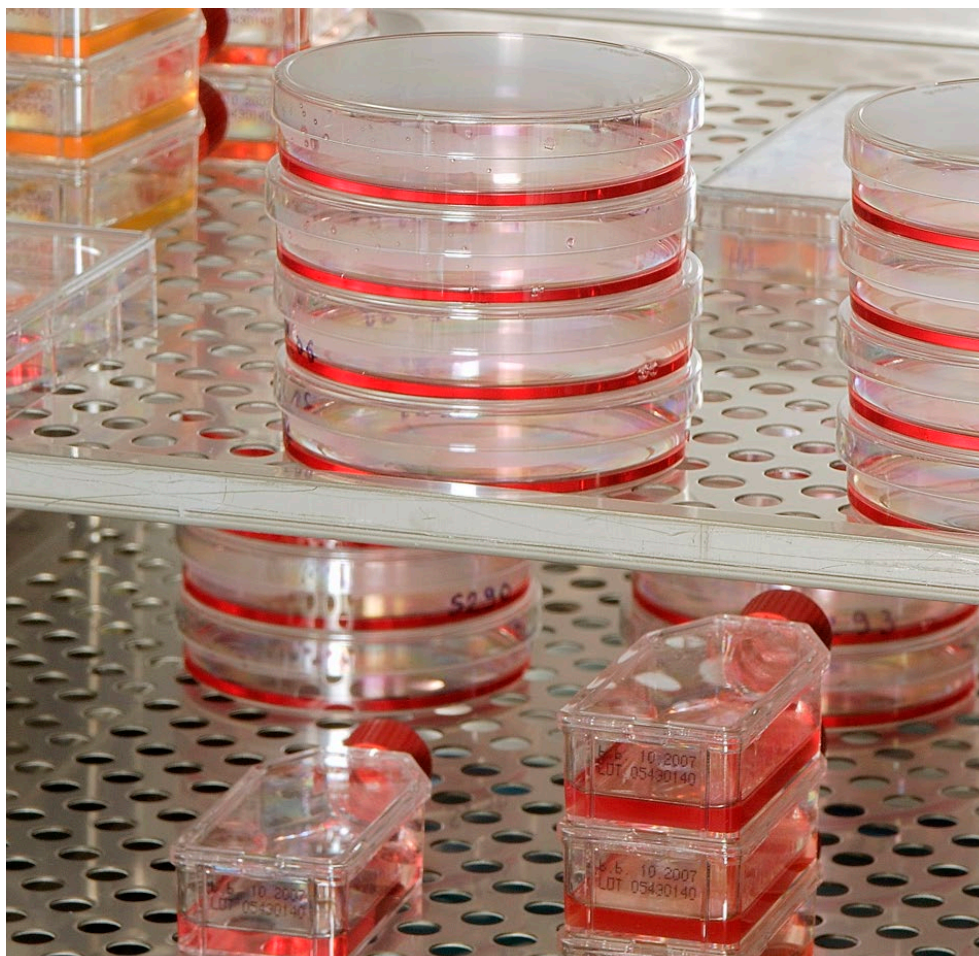
Penicillin G Sodium Salt

Cat N° :	P0018-1MU	Unit/Size :	1 Million Units	State : Powder	Storage : +2/+8°C	Life : 36 months
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Nanomycoplutine Concentrat 20 x

Cat N° :	L-X16-010 L-X16-100	Unit/Size :	10 ml 100 ml	State : Frozen	Storage : -20°C	Life : 24 months
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- Other Antibiotics available on request
- > Composition available on our website www.biowest.net
 - Other packagings available on request.
 - For your special formulation, please contact us we can make your custom made Media on request.



Cell Culture Reagents

TRYP SIN

Trypsin is a porcine pancreas-derived enzyme that is commonly used for the dissociation and disaggregation of anchorage-dependent mammalian cells and tissues. The concentration of trypsin necessary to dislodge the cells from their substrate depends on the sensitivity of the cells.

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

Cat N° :	L0909-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red

Cat N° :	L0910-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red

Cat N° :	X0915-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	18 months
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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	State :	Frozen	Storage :	-20°C	Life :	24 months
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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	State :	Frozen	Storage :	-20°C	Life :	24 months
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Trypsin 2.5 % in HBSS w/o Calcium w/o Magnesium w/o Phenol Red

Cat N° :	X0920-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red

Cat N° :	L0930-100 L0930-500	Unit/Size :	100 ml 500 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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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	State :	Frozen	Storage :	-20°C	Life :	24 months
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Trypsin-EDTA 10X

Cat N° :	X0930-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride

Cat N° :	P0940-10GR	Unit/Size :	10 g	State :	Powder	Storage :	+2/+8°C	Life :	24 months
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Trypsin 1:250 powder (porcine)

Cat N° :	P5957-100GR	Unit/Size :	100 g	State :	Powder	Storage :	+2/+8°C	Life :	12 months
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> Composition available on our website www.biowest.net

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

ACCUTASE

Accutase is a ready to use cell detachment solution of proteolytic and collagenolytic enzymes. Accutase is a direct replacement for trypsin solution.

Accutase

Cat N° :	L0950-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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MEM 50X/100X and BME 100X CONCENTRATE AMINO ACIDS, VITAMINS, NEAA

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

BME Amino Acids 100X w/o L-Glutamine

Cat N° :	X0552-100	Unit/Size :	100 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM Amino Acids 50X w/o L-Glutamine

Cat N° :	X0554-100	Unit/Size :	100 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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MEM Vitamins 100X w/o L-Glutamine

Cat N° :	X0556-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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MEM non Essential Amino Acids 100X w/o L-Glutamine

Cat N° :	X0557-100	Unit/Size :	100 ml	State :	Liquid	Storage :	+2/+8°C	Life :	24 months
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> Composition available on our website www.biowest.net

- Other packagings available on request
- For your special formulation, please contact us we can make your custom made Media 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	State :	Liquid	Storage :	+20°C	Life :	24 months
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> Composition available on our website www.biowest.net

- Other packagings available on request
- For your special formulation, please contact us we can make your custom made Media 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 avoid 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	State :	Frozen	Storage :	-20°C	Life :	24 months
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Glutamine stable 100X, 200mM

Cat N° :	X0551-100	Unit/Size :	100 ml	State :	Frozen	Storage :	-20°C	Life :	24 months
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L-Glutamine

Cat N° :	P1012-100GR P1012-KG	Unit/Size :	100 g 1 Kg	State :	Powder	Storage :	+20°C	Life :	24 months
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L-Alanyl-L-Glutamine, stable Glutamine

Cat N° :	P1031-100GR	Unit/Size :	100 g	State :	Powder	Storage :	+20°C	Life :	36 months
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- Other packagings available on request

CELL CULTURE WATER

Cell Culture Water Pyrogen free

Cat N° :	L0970-100 L0970-500 L0970-1000	Unit/Size :	100 ml 500 ml 1000 ml	State :	Liquid	Storage :	+20°C	Life :	48 months
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COLCEMID

Colcemid arrested 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	State : Liquid	Storage : +2/+8°C	Life : 24 months
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> Composition available on our website www.biowest.net

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

PHENOL RED

Phenol red is used as a pH indicator. The sodium salt of phenol red is used widely in culture media to identify changes from neutral to acidic pH values. A solution of phenol red will have a yellow color at a pH of 6.4 or below and a red color at a pH of 8.2 and above.

Phenol Red Solution 0.5 %

Cat N° :	L0541-100	Unit/Size :	100 ml	State : Liquid	Storage : +2/+8°C	Life : 48 months
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Phenol Red Sodium Salt

Cat N° :	P5648-10GR	Unit/Size :	10 g	State : Powder	Storage : +20°C	Life : 48 months
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- Other packagings available on request

TRYPAN BLUE

Trypan Blue is a stain used to distinguish viable from non viable cells.

Trypan Blue 0.5 % Solution (non sterile)

Cat N° :	L0990-100	Unit/Size :	100 ml	State : Liquid	Storage : +20°C	Life : 24 months
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Trypan Blue

Cat N° :	P0935-1GR	Unit/Size :	1 g	State : Powder	Storage : +20°C	Life : 48 months
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- Other packagings available on request

AMINO ACIDS AND VITAMINS

- Please inquire availability, packagings and prices.

Glossary by alphabetical order

Product	Cat N°	Unit/ Size	Page
A			
Accutase	L0950-100	100 ml	45
Amino Acids and Vitamins			47
Amphotericin B	L0009-050	50 ml	42
Amphotericin B	L0009-100	100 ml	42
Antibiotic-Antimycotic 100X	L0010-020	20 ml	42
Antibiotic-Antimycotic 100X	L0010-100	100 ml	42
B			
BME Amino Acids 100X w/o L-Glutamine	X0552-100	100 ml	45
BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	P0030-N10L	For 10 L	19
BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	P0030-N1L	For 1 L	19
BME w/ Earle's Salts w/o L-Glutamine	L0042-500	500 ml	19
BME w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	L0044-500	500 ml	19
BME w/ Hanks' Salts w/o L-Glutamine	L0046-500	500 ml	19
Bovine Plasma w/ Sodium Citrate	S0260-500	500 ml	14
Bovine Serum (France Origin)	S0250-1000	1000 ml	13
Bovine Serum (France Origin)	S0250-500	500 ml	13
BSA 30 % liquide	A0296-1000	1000 ml	15
BSA Fatty Acids Free	P6156-100GR	100 g	15
BSA Fatty Acids Free	P6156-500GR	500 g	15
BSA Fatty Acids Free	P6156-KG	1 kg	15
BSA Lyophilised pH ~7	P6154-100GR	100 g	15
BSA Lyophilised pH ~7	P6154-500GR	500 g	15
BSA Lyophilised pH ~7	P6154-KG	1 kg	15
BSA Protease Free	P6155-100GR	100 g	15
BSA Protease Free	P6155-500GR	500 g	15
BSA Protease Free	P6155-KG	1 kg	15
C			
Calf Serum	S0400-500	500 ml	13
Cell Culture Water Pyrogen free	L0970-100	100 ml	46
Cell Culture Water Pyrogen free	L0970-500	500 ml	46
Cell Culture Water Pyrogen free	L0970-1000	1000 ml	46
Chicken Serum	S0500-500	500 ml	13
CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate	P0058-N10L	For 10 L	19
CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate	P0058-N1L	For 1 L	19
CMRL 1066 w/o L-Glutamine	L0053-500	500 ml	19
Colcemid 10 µg/ml in PBS (Demecolcin)	L0040-010	10 ml	47
Colcemid 10 µg/ml in PBS (Demecolcin)	L0040-020	20 ml	47
Colcemid 10 µg/ml in PBS (Demecolcin)	L0040-050	50 ml	47
D			
DMEM - F12 w/ L-Glutamine w/ 15 mM Hepes	L0093-500	500 ml	21
DMEM - F12 w/ L-Glutamine w/ 25 mM Hepes	L0095-500	500 ml	21
DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	P0095-N10L	For 10 L	22
DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	P0095-N1L	For 1 L	22
DMEM - F12 w/ stable Glutamine w/ 15 mM Hepes	L0092-500	500 ml	21
DMEM - F12 w/o L-Glutamine w/o Hepes	L0090-500	500 ml	21
DMEM - F12 w/o L-Glutamine w/ 15 mM Hepes	L0094-500	500 ml	21
DMEM - F12 w/o L-Glutamine w/ 25 mM Hepes	L0096-500	500 ml	21
DMEM - F12 w/o L-Glutamine w/o Hepes w/o Glucose	L0091-500	500 ml	21
DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	P0103-N10L	For 10 L	20
DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	P0103-N1L	For 1 L	20
DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate	L0104-500	500 ml	20
DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	P0102-N10L	For 10 L	20
DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	P0102-N1L	For 1 L	20
DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	L0102-500	500 ml	20
DMEM High Glucose w/ stable Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	L0107-500	500 ml	20
DMEM High Glucose w/ stable Glutamine w/ Sodium Pyruvate	L0103-500	500 ml	20
DMEM High Glucose w/o L-Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	L0100-500	500 ml	20
DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate	L0106-500	500 ml	20
DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate	L0101-500	500 ml	20
DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	P0061-N1L	For 1 L	21
DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate	L0060-500	500 ml	20
DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/ 25 mM Hepes	L0065-500	500 ml	21
DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate	L0066-500	500 ml	21
DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate	L0064-500	500 ml	20
Dog (Canine) Plasma w/ Lithium Heparin	S2920-100	100 ml	14
Donkey Serum	S2170-500	500 ml	13
Donor Foal Serum	S0800-500	500 ml	13
Donor Horse Serum	S0900-500	500 ml	13
Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium	X0520-500	500 ml	38
Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	X0515-500	500 ml	38

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Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	X0515-100	100 ml	38
Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	L0625-1000	1000 ml	38
Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	L0625-500	500 ml	38
Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	L0615-1000	1000 ml	38
Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	L0615-500	500 ml	38
Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	L0615-100	100 ml	38
Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium (non sterile)	L0615-C10L	For 10 L	38
Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	P0750-N10L	For 10 L	38
Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	P0750-N1L	For 1 L	38
E Earle's Balanced Salts 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	X0112-500	500 ml	38
Earle's Balanced Salts 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate	X0113-500	500 ml	38
Earle's Balanced Salts Solution w/ Calcium w/ Magnesium	L0602-500	500 ml	38
Earle's Balanced Salts Solution w/o Calcium w/o Magnesium	L0601-500	500 ml	38
F FBS Australia, USDA approved	S1700-100	100 ml	11
FBS Australia, USDA approved	S1700-500	500 ml	11
FBS Chile, USDA approved	S1560-100	100 ml	11
FBS Chile, USDA approved	S1560-500	500 ml	11
FBS Central America, USDA approved	S1600-100	100 ml	11
FBS Central America, USDA approved	S1600-500	500 ml	11
FBS France	S1820-100	100 ml	11
FBS France	S1820-500	500 ml	11
FBS Mexico, USDA approved	S1650-100	100 ml	11
FBS Mexico, USDA approved	S1650-500	500 ml	11
FBS South America	S1810-100	100 ml	11
FBS South America	S1810-500	500 ml	11
FBS South America Charcoal Stripped	S181F-100	100 ml	11
FBS South America Charcoal Stripped	S181F-500	500 ml	11
FBS South America Dialysed	S181D-100	100 ml	11
FBS South America Dialysed	S181D-500	500 ml	11
FBS South America Gamma Irradiated	S181G-100	100 ml	11
FBS South America Gamma Irradiated	S181G-500	500 ml	11
FBS South America Heat Inactivated	S181H-100	100 ml	11
FBS South America Heat Inactivated	S181H-500	500 ml	11
FBS South America Iron Supplemented	S181R-100	100 ml	12
FBS South America Iron Supplemented	S181R-500	500 ml	12
FBS South America Lipid Depleted	S181L-100	100 ml	12
FBS South America Lipid Depleted	S181L-500	500 ml	12
FBS South America, Premium	S181B-100	100 ml	11
FBS South America, Premium	S181B-500	500 ml	11
FBS South America Tetracycline Free	S181T-100	100 ml	12
FBS South America Tetracycline Free	S181T-500	500 ml	12
FBS South America, Ultra-low Endotoxin	S1860-100	100 ml	11
FBS South America, Ultra-low Endotoxin	S1860-500	500 ml	11
FBS Uruguay	S1580-100	100 ml	11
FBS Uruguay	S1580-500	500 ml	11
FBS USA	S1520-100	100 ml	11
FBS USA	S1520-500	500 ml	11
Fetal Horse Serum	S0960-500	500 ml	13
Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	P0105-N10L	For 10 L	22
Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	P0105-N1L	For 1 L	22
G G-418 (Geneticin) Solution	L0015-010	10 ml	42
G-418 (Geneticin) Solution	L0015-100	100 ml	42
G-418 SULFATE	P0017-1GR	1 g	42
G-418 SULFATE	P0017-5GR	5 g	42
Gentamicin Sulfate	P4020-1GR	1 g	42
Gentamicin Sulfate	P4020-5GR	5 g	42
Gentamicin Sulfate 10 mg/ml	L0011-010	10 ml	42
Gentamicin Sulfate 10 mg/ml	L0011-100	100 ml	42
Gentamicin Sulfate 50 mg/ml	L0012-010	10 ml	42
Gentamicin Sulfate 50 mg/ml	L0012-100	100 ml	42
Glasgow MEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth	L0221-500	500 ml	22
Glasgow MEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth	L0222-500	500 ml	22
Glasgow MEM BHK21 w/ L-Glutamine w/o Na Bicarbonate w/o Tryptose Phosphate Broth	P0120-N10L	For 10 L	22
Glasgow MEM BHK21 w/ L-Glutamine w/o Na Bicarbonate w/o Tryptose Phosphate Broth	P0120-N1L	For 1 L	22
Glutamine stable 100X, 200mM	X0551-100	100 ml	46

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Glutamine-Penicillin-Streptomycin 100X	L0014-100	100 ml	42
Goat Serum	S2000-500	500 ml	13
Guinea Pig Serum	S2450-010	10 ml	13
Guinea Pig Serum	S2450-100	100 ml	13
H Ham's F10 w/ L-Glutamine	L0140-500	500 ml	23
Ham's F10 w/ L-Glutamine w/ 25 mM Hepes	L0130-500	500 ml	23
Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	P0146-N10L	For 10 L	23
Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	P0146-N1L	For 1 L	23
Ham's F10 w/o L-Glutamine	L0145-500	500 ml	23
Ham's F12 w/ L-Glutamine	L0135-500	500 ml	24
Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	P0134-N10L	For 10 L	24
Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	P0134-N1L	For 1 L	24
Ham's F12 w/o L-Glutamine	L0136-500	500 ml	24
Ham's F14 w/ 6g/L glucose w/ 1mg/L ATP	L0138-500	500 ml	24
HBSS w/o Ca w/o Mg w/o Na Bicarbonate w/o Phenol Red	L0605-500	500 ml	39
HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red	L0606-500	500 ml	39
HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red	L0612-500	500 ml	39
HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	P0154-N10L	For 10 L	39
HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	P0154-N1L	For 1 L	39
HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	L0608-500	500 ml	39
HBSS w/o Ca w/o Mg w/o Na Bicarbonate w/o Phenol Red	P0153-N10L	For 10 L	39
HBSS w/o Ca w/o Mg w/o Na Bicarbonate w/o Phenol Red	P0153-N1L	For 1 L	39
HBSS w/ Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red	L0611-500	500 ml	39
HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	L0607-500	500 ml	39
HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	X0509-500	500 ml	39
HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	X0510-500	500 ml	39
HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	X0513-500	500 ml	39
HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	X0507-500	500 ml	39
HEPES Buffer 1 M	L0180-100	100 ml	40
HEPES Buffer 1 M	L0180-500	500 ml	40
HEPES, cell culture tested	P5455-100GR	100 g	40
HEPES, cell culture tested	P5455-500GR	500 g	40
HEPES, cell culture tested	P5455-KG	1000 g	40
Human Plasma pooled	S4180-100	100 ml	14
Human Plasma pooled	S4180-500	500 ml	14
Human Serum AB male HIV tested	S4190-100	100 ml	14
Human Serum Albumin	P6140-100GR	100 g	14
Human Serum Albumin	P6140-500GR	500 g	14
Human Serum Albumin	P6140-KG	1 kg	14
Human Serum HIV Tested	S4200-100	100 ml	14
I IMDM w/ L- Glutamine w/ 25mM Hepes	L0190-500	500 ml	25
IMDM w/o L-Glutamine w/o Hepes	L0192-500	500 ml	25
IMDM w/stable Glutamine w/ 25mM Hepes	L0191-500	500 ml	25
IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	P0191-N10L	For 10 L	25
IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	P0191-N1L	For 1 L	25
Instant Sterile FBS France - For 500ml	S382G-N0.5L	30 g	12
Instant Sterile FBS France - For 50ml	S382G-N0.05L	3 g	12
Instant Sterile FBS South America - For 500ml	S381G-N0.5L	30 g	12
Instant Sterile FBS South America - For 50ml	S381G-N0.05L	3 g	12
K Kanamycin Solution 100X	L0008-020	20 ml	42
Kanamycin Solution 100X	L0008-100	100 ml	42
L L-Alanyl-L-Glutamine, stable Glutamine	P1031-100GR	100 g	46
Lamb Serum	S2300-500	500 ml	13
Leibovitz L 15 Medium w/ L-Glutamine	P0350-N10L	For 10 L	26
Leibovitz L 15 Medium w/ L-Glutamine	P0350-N1L	For 1 L	26
Leibovitz L15 Medium w/o L-Glutamine	L0300-500	500 ml	25
L-Glutamine	P1012-100GR	100 g	46
L-Glutamine	P1012-KG	1 kg	46
L-Glutamine 100X, 200mM	X0550-100	100 ml	46
Lymphosep, Lymphocyte Separation Media	L0560-100	100 ml	45
Lymphosep, Lymphocyte Separation Media	L0560-500	500 ml	45
M McCoy's 5A w/ L-Glutamine	L0210-500	500 ml	26
McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	P0390-N10L	For 10 L	26
McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	P0390-N1L	For 1 L	26
MCDB 105	L1200-500	500 ml	31

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MCDB 131	L1202-500	500 ml	31
MCDB 151	L1203-500	500 ml	31
Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	P0410-N10L	For 10 L	27
Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	P0410-N1L	For 1 L	27
Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate	L0355-500	500 ml	26
Medium 199 w/ Earle's Salts w/ stable Glutamine w/ 25 mM Hepes	L0361-500	500 ml	27
Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Na Bicarbonate w/ 25 mM Hepes	P0425-N10L	For 10 L	27
Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Na Bicarbonate w/ 25 mM Hepes	P0425-N1L	For 1 L	27
Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	P0420-N10L	For 10 L	27
Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	P0420-N1L	For 1 L	27
Medium 199 w/ Earle's Salts w/o L-Glutamine	L0356-500	500 ml	27
Medium 199 w/ Hanks' Salts w/ L-Glutamine	L0330-500	500 ml	26
MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	P0440-N10L	For 10 L	29
MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	P0440-N1L	For 1 L	29
MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	L0475-500	500 ml	28
MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	L0476-500	500 ml	28
MEM Amino Acids 50X w/o L-Glutamine	X0554-100	100 ml	45
MEM non Essential Amino Acids 100X w/o L-Glutamine	X0557-100	100 ml	45
MEM Vitamins 100X w/o L-Glutamine	X0556-100	100 ml	45
MEM w/ Earle's Salts w/ L-Glutamine	L0415-500	500 ml	27
MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM Hepes	L0444-500	500 ml	28
MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	P0450-N10L	For 10 L	28
MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	P0450-N1L	For 1 L	28
MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	P0451-N10L	For 10 L	28
MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	P0451-N1L	For 1 L	28
MEM w/ Earle's Salts w/ stable Glutamine	L0416-500	500 ml	27
MEM w/ Earle's Salts w/o L-Glutamine	L0440-500	500 ml	27
MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	L0445-500	500 ml	28
MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA	L0430-500	500 ml	27
MEM w/ Hanks' Salt w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	P0515-N10L	For 10 L	28
MEM w/ Hanks' Salt w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	P0515-N1L	For 1 L	28
MEM w/ Hanks' Salts Solution w/o L-Glutamine	L0465-500	500 ml	28
MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes	L0470-500	500 ml	28
Mouse Plasma w/ Lithium Heparin	S2162-100	100 ml	14
Mouse Serum	S2160-010	10 ml	13
Mouse Serum	S2160-100	100 ml	13
N Nanomycopolitine Concentrat 20 x	L-X16-010	10 ml	43
Nanomycopolitine Concentrat 20 x	L-X16-100	100 ml	43
New Born Calf Serum	S0750-500	500 ml	13
P Penicillin G Sodium Salt	P0018-1MU	1 Million Units	43
Penicillin-Streptomycin	L0018-020	20 ml	42
Penicillin-Streptomycin	L0018-100	100 ml	42
Penicillin-Streptomycin Solution 100X	L0022-020	20 ml	43
Penicillin-Streptomycin Solution 100X	L0022-100	100 ml	43
Phenol Red Sodium Salt	P5648-10GR	10 g	47
Phenol Red Solution 0.5 %	L0541-100	100 ml	47
Pig Serum	S2400-500	500 ml	13
Potassium Chloride	P2035-500GR	500 g	40
Potassium Chloride 0.075 M	L0643-100	100 ml	40
Potassium Chloride 0.075 M	L0643-500	500 ml	40
R Rabbit Plasma w/ EDTA	S2600-500	500 ml	14
Rabbit Serum	S2500-500	500 ml	13
Rat Plasma w/ Lithium Heparin	S2140-100	100 ml	14
Rat Serum	S2150-010	10 ml	13
Rat Serum	S2150-100	100 ml	13
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	P0875-N10L	For 10 L	30
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	P0875-N1L	For 1 L	30
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	P0871-N10L	For 10 L	30
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	P0871-N1L	For 1 L	30
RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Na Bicarbonate w/20mM Hepes	L0492-500	500 ml	29
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	P0876-N10L	For 10 L	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	P0876-N1L	For 1 L	30
RPMI 1640 w/ L-Glutamine	L0500-100	100 ml	29
RPMI 1640 w/ L-Glutamine	L0500-500	500 ml	29
RPMI 1640 w/ L-Glutamine	L0500-1000	1000 ml	29
RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes	L0495-500	500 ml	29
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	P0860-N10L	For 10 L	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	P0860-N1L	For 1 L	30

Serum

Cell Culture Media

Salt Solutions

Antibiotics

Cell Culture Reagents

Glossary

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RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	P0883-N10L	For 10 L	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	P0883-N1L	For 1 L	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	P0880-N10L	For 10 L	30
RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	P0880-N1L	For 1 L	30
RPMI 1640 w/ stable Glutamine	L0498-500	500 ml	29
RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes	L0496-500	500 ml	29
RPMI 1640 w/o L-Glutamine	L0501-100	100 ml	29
RPMI 1640 w/o L-Glutamine	L0501-500	500 ml	29
RPMI 1640 w/o L-Glutamine	L0501-1000	1000 ml	29
RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes	L0490-500	500 ml	29
RPMI 1640 w/o L-Glutamine w/o Folic Acid	L0503-500	500 ml	29
RPMI 1640 w/o L-Glutamine w/o Phenol Red	L0505-500	500 ml	29
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	P0870-N10L	For 10 L	30
RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	P0870-N1L	For 1 L	30
S Schneider's Drosophila Medium	L0207-500	500 ml	30
Sheep Serum	S2350-500	500 ml	13
Sodium Bicarbonate 7.5 %	L0680-100	100 ml	40
Sodium Bicarbonate, cell culture tested	P2060-500GR	500 g	40
Sodium Chloride (for dilution 8.5 g/l)	P2065-N5L	For 5 L	40
Sodium Chloride (for dilution 9 g/l)	P2064-N5L	For 5 L	40
Sodium Chloride Salt Solution 0.85 %	L0640-500	500 ml	40
Sodium Pyruvate 100 mM	L0642-100	100 ml	40
Sodium Pyruvate 100 mM	L0642-500	500 ml	40
T Trypan Blue	P0935-1GR	1 g	47
Trypan Blue 0.5 % Solution (non sterile)	L0990-100	100 ml	47
Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride	P0940-10GR	10 g	44
Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/ Phenol Red	L0909-100	100 ml	44
Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	L0910-100	100 ml	44
Trypsin 0.25% - EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	L0932-100	100 ml	44
Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	L0931-100	100 ml	44
Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	L0931-500	500 ml	44
Trypsin 1:250 powder (porcine)	P5957-100GR	100 g	44
Trypsin 2.5 % in HBSS w/o Calcium w/o Magnesium w/o Phenol Red	X0920-100	100 ml	44
Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	X0915-100	100 ml	44
Trypsin-EDTA 10X	X0930-100	100 ml	44
Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	L0930-100	100 ml	44
Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	L0930-500	500 ml	44
Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	L0940-100	100 ml	44
Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	L0940-500	500 ml	44
V Versene	L0630-100	100 ml	40
W William's Medium E w/ L-Glutamine w/o Sodium Bicarbonate	P0960-N1L	For 1L	31
William's Medium E w/o L-Glutamine w/o Sodium Bicarbonate	P0970-N1L	For 1L	31

Glossary (by catalog N°)

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A0296-1000	1000 ml	BSA 30 % liquide	15
L0008-020	20 ml	Kanamycin Solution 100X	42
L0008-100	100 ml	Kanamycin Solution 100X	42
L0009-050	50 ml	Amphotericin B	42
L0009-100	100 ml	Amphotericin B	42
L0010-020	20 ml	Antibiotic-Antimycotic 100X	42
L0010-100	100 ml	Antibiotic-Antimycotic 100X	42
L0011-010	10 ml	Gentamicin Sulfate 10 mg/ml	42
L0011-100	100 ml	Gentamicin Sulfate 10 mg/ml	42
L0012-010	10 ml	Gentamicin Sulfate 50 mg/ml	42
L0012-100	100 ml	Gentamicin Sulfate 50 mg/ml	42
L0014-100	100 ml	Glutamine-Penicillin-Streptomycin 100X	42
L0015-010	10 ml	G-418 (Geneticin) Solution	42
L0015-100	100 ml	G-418 (Geneticin) Solution	42
L0018-020	20 ml	Penicillin-Streptomycin	42
L0018-100	100 ml	Penicillin-Streptomycin	42
L0022-020	20 ml	Penicillin-Streptomycin Solution 100X	43
L0022-100	100 ml	Penicillin-Streptomycin Solution 100X	43
L0040-010	10 ml	Colcemid 10 µg/ml in PBS (Demecolcin)	47
L0040-020	20 ml	Colcemid 10 µg/ml in PBS (Demecolcin)	47
L0040-050	50 ml	Colcemid 10 µg/ml in PBS (Demecolcin)	47
L0042-500	500 ml	BME w/ Earle's Salts w/o L-Glutamine	19
L0044-500	500 ml	BME w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	19
L0046-500	500 ml	BME w/ Hanks' Salts w/o L-Glutamine	19
L0053-500	500 ml	CMRL 1066 w/o L-Glutamine	19
L0060-500	500 ml	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate	20
L0064-500	500 ml	DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate	20
L0065-500	500 ml	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/ 25 mM Hepes	21
L0066-500	500 ml	DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate	21
L0090-500	500 ml	DMEM - F12 w/o L- Glutamine w/o Hepes	21
L0091-500	500 ml	DMEM - F12 w/o L-Glutamine w/o Hepes w/o Glucose	21
L0092-500	500 ml	DMEM - F12 w/ stable Glutamine w/ 15 mM Hepes	21
L0093-500	500 ml	DMEM - F12 w/ L-Glutamine w/ 15 mM Hepes	21
L0094-500	500 ml	DMEM - F12 w/o L-Glutamine w/ 15 mM Hepes	21
L0095-500	500 ml	DMEM - F12 w/ L-Glutamine w/ 25 mM Hepes	21
L0096-500	500 ml	DMEM - F12 w/o L-Glutamine w/ 25 mM Hepes	21
L0100-500	500 ml	DMEM High Glucose w/o L-Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	20
L0101-500	500 ml	DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate	20
L0102-500	500 ml	DMEM High Glucose w/ L-Glutamine w/o Sodium Pyruvate	20
L0103-500	500 ml	DMEM High Glucose w/ stable Glutamine w/ Sodium Pyruvate	20
L0104-500	500 ml	DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate	20
L0106-500	500 ml	DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate	20
L0107-500	500 ml	DMEM High Glucose w/ stable Glutamine w/ 25mM Hepes w/o Sodium Pyruvate	20
L0130-500	500 ml	Ham's F10 w/ L-Glutamine w/ 25 mM Hepes	23
L0135-500	500 ml	Ham's F12 w/ L-Glutamine	24
L0136-500	500 ml	Ham's F12 w/o L-Glutamine	24
L0138-500	500 ml	Ham's F14 w/ 6g/L glucose w/ 1mg/L ATP	24
L0140-500	500 ml	Ham's F10 w/ L-Glutamine	23
L0145-500	500 ml	Ham's F10 w/o L-Glutamine	23
L0180-100	100 ml	HEPES Buffer 1 M	40
L0180-500	500 ml	HEPES Buffer 1 M	40
L0190-500	500 ml	IMDM w/ L- Glutamine w/ 25mM Hepes	25
L0191-500	500 ml	IMDM w/stable Glutamine w/ 25mM Hepes	25
L0192-500	500 ml	IMDM w/o L-Glutamine w/o Hepes	25
L0207-500	500 ml	Schneider's Drosophila Medium	30
L0210-500	500 ml	McCoy's 5A w/ L-Glutamine	26
L0221-500	500 ml	Glasgow MEM BHK 21 w/ L-Glutamine w/o Tryptose Phosphate Broth	22
L0222-500	500 ml	Glasgow MEM BHK 21 w/o L-Glutamine w/o Tryptose Phosphate Broth	22
L0300-500	500 ml	Leibovitz L15 Medium w/o L-Glutamine	25
L0330-500	500 ml	Medium 199 w/ Hanks' Salts w/ L-Glutamine	26
L0355-500	500 ml	Medium 199 w/ Earle's Mod. Salts w/ L-Glutamine w/ 1.25g/l Sodium Bicarbonate	26
L0356-500	500 ml	Medium 199 w/ Earle's Salts w/o L-Glutamine	27
L0361-500	500 ml	Medium 199 w/ Earle's Salts w/ stable Glutamine w/ 25 mM Hepes	27
L0415-500	500 ml	MEM w/ Earle's Salts w/ L-Glutamine	27
L0416-500	500 ml	MEM w/ Earle's Salts w/ stable Glutamine	27
L0430-500	500 ml	MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA	27
L0440-500	500 ml	MEM w/ Earle's Salts w/o L-Glutamine	27
L0444-500	500 ml	MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM Hepes	28
L0445-500	500 ml	MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	28
L0465-500	500 ml	MEM w/ Hanks' Salts Solution w/o L-Glutamine	28

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L0470-500	500 ml	MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes	28
L0475-500	500 ml	MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	28
L0476-500	500 ml	MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	28
L0490-500	500 ml	RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes	29
L0492-500	500 ml	RPMI 1640 Dutch Modification w/o L-Glutamine w/ 1g/l Na Bicarbonate w/20mM Hepes	29
L0495-500	500 ml	RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes	29
L0496-500	500 ml	RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes	29
L0498-500	500 ml	RPMI 1640 w/ stable Glutamine	29
L0500-100	100 ml	RPMI 1640 w/ L-Glutamine	29
L0500-1000	1000 ml	RPMI 1640 w/ L-Glutamine	29
L0500-500	500 ml	RPMI 1640 w/ L-Glutamine	29
L0501-100	100 ml	RPMI 1640 w/o L-Glutamine	29
L0501-1000	1000 ml	RPMI 1640 w/o L-Glutamine	29
L0501-500	500 ml	RPMI 1640 w/o L-Glutamine	29
L0503-500	500 ml	RPMI 1640 w/o L-Glutamine w/o Folic Acid	29
L0505-500	500 ml	RPMI 1640 w/o L-Glutamine w/o Phenol Red	29
L0541-100	100 ml	Phenol Red Solution 0.5 %	47
L0560-100	100 ml	Lymphosep, Lymphocyte Separation Media	45
L0560-500	500 ml	Lymphosep, Lymphocyte Separation Media	45
L0601-500	500 ml	Earle's Balanced Salts Solution w/o Calcium w/o Magnesium	38
L0602-500	500 ml	Earle's Balanced Salts Solution w/ Calcium w/ Magnesium	38
L0605-500	500 ml	HBSS w/o Ca w/o Mg w/o Na Bicarbonate w/o Phenol Red	39
L0606-500	500 ml	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red	39
L0607-500	500 ml	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	39
L0608-500	500 ml	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	39
L0611-500	500 ml	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red	39
L0612-500	500 ml	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red	39
L0615-100	100 ml	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	38
L0615-1000	1000 ml	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	38
L0615-500	500 ml	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	38
L0615-C10L	10 L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium (non sterile)	38
L0625-1000	1000 ml	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	38
L0625-500	500 ml	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	38
L0630-100	100 ml	Versene	40
L0640-500	500 ml	Sodium Chloride Salt Solution 0.85 %	40
L0642-100	100 ml	Sodium Pyruvate 100 mM	40
L0642-500	500 ml	Sodium Pyruvate 100 mM	40
L0643-100	100 ml	Potassium Chloride 0.075 M	40
L0643-500	500 ml	Potassium Chloride 0.075 M	40
L0680-100	100 ml	Sodium Bicarbonate 7.5 %	40
L0909-100	100 ml	Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/ Phenol Red	44
L0910-100	100 ml	Trypsin 0.25 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	44
L0930-100	100 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	44
L0930-500	500 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	44
L0931-100	100 ml	Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	44
L0931-500	500 ml	Trypsin 0.25% - EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	44
L0932-100	100 ml	Trypsin 0.25% - EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	44
L0940-100	100 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	44
L0940-500	500 ml	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	44
L0950-100	100 ml	Accutase	45
L0970-100	100 ml	Cell Culture Water Pyrogen free	46
L0970-1000	1000 ml	Cell Culture Water Pyrogen free	46
L0970-500	500 ml	Cell Culture Water Pyrogen free	46
L0990-100	100 ml	Trypan Blue 0.5 % Solution (non sterile)	47
L1200-500	500 ml	MCDB 105	31
L1202-500	500 ml	MCDB 131	31
L1203-500	500 ml	MCDB 151	31
L-X16-010	10 ml	Nanomycopulitine Concentrat 20 x	43
L-X16-100	100 ml	Nanomycopulitine Concentrat 20 x	43
P0017-1GR	1 g	G-418 SULFATE	42
P0017-5GR	5 g	G-418 SULFATE	42
P0018-1MU	1 Million U.	Penicillin G Sodium Salt	43
P0030-N10L	For 10 L	BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	19
P0030-N1L	For 1 L	BME w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	19
P0058-N10L	For 10 L	CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate	19
P0058-N1L	For 1 L	CMRL 1066 w/ L-Glutamine w/o Sodium Bicarbonate	19
P0061-N1L	For 1 L	DMEM Low Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	21
P0095-N10L	For 10 L	DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	22
P0095-N1L	For 1 L	DMEM - F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	22
P0102-N10L	For 10 L	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	20

Cat N°	Unit/ Size	Product	Page
P0102-N1L	For 1 L	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate	20
P0103-N10L	For 10 L	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	20
P0103-N1L	For 1 L	DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/o Sodium Pyruvate	20
P0105-N10L	For 10 L	Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	22
P0105-N1L	For 1 L	Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	22
P0120-N10L	For 10 L	Glasgow MEM BHK21 w/ L-Glutamine w/o Na Bicarbonate w/o Tryptose Phosphate Broth	22
P0120-N1L	For 1 L	Glasgow MEM BHK21 w/ L-Glutamine w/o Na Bicarbonate w/o Tryptose Phosphate Broth	22
P0134-N10L	For 10 L	Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	24
P0134-N1L	For 1 L	Ham's F12 w/ L-Glutamine w/o Sodium Bicarbonate	24
P0146-N10L	For 10 L	Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	23
P0146-N1L	For 1 L	Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	23
P0153-N10L	For 10 L	HBSS w/o Ca w/o Mg w/o Na Bicarbonate w/o Phenol Red	39
P0153-N1L	For 1 L	HBSS w/o Ca w/o Mg w/o Na Bicarbonate w/o Phenol Red	39
P0154-N10L	For 10 L	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	39
P0154-N1L	For 1 L	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	39
P0191-N10L	For 10 L	Iscove's Modified DMEM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	25
P0191-N1L	For 1 L	Iscove's Modified DMEM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	25
P0350-N10L	For 10 L	Leibovitz L 15 Medium w/ L-Glutamine	26
P0350-N1L	For 1 L	Leibovitz L 15 Medium w/ L-Glutamine	26
P0390-N10L	For 10 L	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	26
P0390-N1L	For 1 L	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	26
P0410-N10L	For 10 L	Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	27
P0410-N1L	For 1 L	Medium 199 modified w/ Hanks' Salts w/o L-Glutamine w/o Sodium Bicarbonate	27
P0420-N10L	For 10 L	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	27
P0420-N1L	For 1 L	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	27
P0425-N10L	For 10 L	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Na Bicarbonate w/ 25 mM Hepes	27
P0425-N1L	For 1 L	Medium 199 w/ Earle's Salts w/ L-Glutamine w/o Na Bicarbonate w/ 25 mM Hepes	27
P0440-N10L	For 10 L	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	29
P0440-N1L	For 1 L	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	29
P0450-N10L	For 10 L	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	28
P0450-N1L	For 1 L	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	28
P0451-N10L	For 10 L	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	28
P0451-N1L	For 1 L	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	28
P0515-N10L	For 10 L	MEM w/ Hanks' Salt w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	28
P0515-N1L	For 1 L	MEM w/ Hanks' Salt w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	28
P0750-N10L	For 10 L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	38
P0750-N1L	For 1 L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	38
P0860-N10L	For 10 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	30
P0860-N1L	For 1 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	30
P0870-N10L	For 10 L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	30
P0870-N1L	For 1 L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	30
P0871-N10L	For 10 L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	30
P0871-N1L	For 1 L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	30
P0875-N10L	For 10 L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	30
P0875-N1L	For 1 L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	30
P0876-N10L	For 10 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	30
P0876-N1L	For 1 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes w/o Phenol Red	30
P0880-N10L	For 10 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	30
P0880-N1L	For 1 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	30
P0883-N10L	For 10 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	30
P0883-N1L	For 1 L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	30
P0935-1GR	1 g	Trypan Blue	47
P0940-10GR	10 g	Trypsin - EDTA 1X Lyophilised w/ Sodium Chloride	44
P0960-N1L	For 1L	William's Medium E w/ L-Glutamine w/o Sodium Bicarbonate	31
P0970-N1L	For 1L	William's Medium E w/o L-Glutamine w/o Sodium Bicarbonate	31
P1012-100GR	100 g	L-Glutamine	46
P1012-KG	1 kg	L-Glutamine	46
P1031-100GR	100 g	L-Alanyl-L-Glutamine, stable Glutamine	46
P2035-500GR	500 g	Potassium Chloride - 500g	40
P2060-500GR	500 g	Sodium Bicarbonate, cell culture tested	40
P2064-N5L	For 5 L	Sodium Chloride (for dilution 9 g/l)	40
P2065-N5L	For 5 L	Sodium Chloride (for dilution 8.5 g/l)	40
P4020-1GR	1 g	Gentamicin Sulfate	42
P4020-5GR	5 g	Gentamicin Sulfate	42
P5455-100GR	100 g	HEPES, cell culture tested	40
P5455-500GR	500 g	HEPES, cell culture tested	40
P5455-KG	1000 g	HEPES, cell culture tested	40
P5648-10GR	10 g	Phenol Red Sodium Salt	47
P5957-100GR	100 g	Trypsin 1:250 powder (porcine)	44
P6140-100GR	100 g	Human Serum Albumin	14

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P6140-500GR	500 g	Human Serum Albumin	14
P6140-KG	1 kg	Human Serum Albumin	14
P6154-100GR	100 g	BSA Lyophilised pH ~7	15
P6154-500GR	500 g	BSA Lyophilised pH ~7	15
P6154-KG	1 kg	BSA Lyophilised pH ~7	15
P6155-100GR	100 g	BSA Protease Free	15
P6155-500GR	500 g	BSA Protease Free	15
P6155-KG	1 kg	BSA Protease Free	15
P6156-100GR	100 g	BSA Fatty Acids Free	15
P6156-500GR	500 g	BSA Fatty Acids Free	15
P6156-KG	1 kg	BSA Fatty Acids Free	15
S0250-1000	1000 ml	Bovine Serum (France Origin)	13
S0250-500	500 ml	Bovine Serum (France Origin)	13
S0260-500	500 ml	Bovine Plasma w/ Sodium Citrate	14
S0400-500	500 ml	Calf Serum	13
S0500-500	500 ml	Chicken Serum	13
S0750-500	500 ml	New Born Calf Serum	13
S0800-500	500 ml	Donor Foal Serum	13
S0900-500	500 ml	Donor Horse Serum	13
S0960-500	500 ml	Fetal Horse Serum	13
S1520-100	100 ml	FBS USA	11
S1520-500	500 ml	FBS USA	11
S1560-100	100 ml	FBS Chile, USDA approved	11
S1560-500	500 ml	FBS Chile, USDA approved	11
S1580-100	100 ml	FBS Uruguay	11
S1580-500	500 ml	FBS Uruguay	11
S1600-100	100 ml	FBS Central America, USDA approved	11
S1600-500	500 ml	FBS Central America, USDA approved	11
S1650-100	100 ml	FBS Mexico, USDA approved	11
S1650-500	500 ml	FBS Mexico, USDA approved	11
S1700-100	100 ml	FBS Australia, USDA approved	11
S1700-500	500 ml	FBS Australia, USDA approved	11
S1810-100	100 ml	FBS South America	11
S1810-500	500 ml	FBS South America	11
S181B-100	100 ml	FBS South America, Premium	11
S181B-500	500 ml	FBS South America, Premium	11
S181D-100	100 ml	FBS South America Dialysed	11
S181D-500	500 ml	FBS South America Dialysed	11
S181F-100	100 ml	FBS South America Charcoal Stripped	11
S181F-500	500 ml	FBS South America Charcoal Stripped	11
S181G-100	100 ml	FBS South America Gamma Irradiated	11
S181G-500	500 ml	FBS South America Gamma Irradiated	11
S181H-100	100 ml	FBS South America Heat Inactivated	11
S181H-500	500 ml	FBS South America Heat Inactivated	11
S181L-100	100 ml	FBS South America Lipid Depleted	12
S181L-500	500 ml	FBS South America Lipid Depleted	12
S181R-100	100 ml	FBS South America Iron Supplemented	12
S181R-500	500 ml	FBS South America Iron Supplemented	12
S181T-100	100 ml	FBS South America Tetracycline Free	12
S181T-500	500 ml	FBS South America Tetracycline Free	12
S1820-100	100 ml	FBS France	11
S1820-500	500 ml	FBS France	11
S1860-100	100 ml	FBS South America, Ultra-low Endotoxin	11
S1860-500	500 ml	FBS South America, Ultra-low Endotoxin	11
S2000-500	500 ml	Goat Serum	13
S2140-100	100 ml	Rat Plasma w/ Lithium Heparin	14
S2150-010	10 ml	Rat Serum	13
S2150-100	100 ml	Rat Serum	13
S2160-010	10 ml	Mouse Serum	13
S2160-100	100 ml	Mouse Serum	13
S2162-100	100 ml	Mouse Plasma w/ Lithium Heparin	14
S2170-500	500 ml	Donkey Serum	13
S2300-500	500 ml	Lamb Serum	13
S2350-500	500 ml	Sheep Serum	13
S2400-500	500 ml	Pig Serum	13
S2450-010	10 ml	Guinea Pig Serum	13
S2450-100	100 ml	Guinea Pig Serum	13
S2500-500	500 ml	Rabbit Serum	13
S2600-500	500 ml	Rabbit Plasma w/ EDTA	14
S2920-100	100 ml	Dog (Canine) Plasma w/ Lithium Heparin	14

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S381G-N0.05L	3 g	Instant Sterile FBS South America - For 50ml	12
S381G-N0.5L	30 g	Instant Sterile FBS South America - For 500ml	12
S382G-N0.05L	3 g	Instant Sterile FBS France - For 50ml	12
S382G-N0.5L	30 g	Instant Sterile FBS France - For 500ml	12
S4180-100	100 ml	Human Plasma pooled	14
S4180-500	500 ml	Human Plasma pooled	14
S4190-100	100 ml	Human Serum AB male HIV tested	14
S4200-100	100 ml	Human Serum HIV Tested	14
X0112-500	500 ml	Earle's Balanced Salts 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	38
X0113-500	500 ml	Earle's Balanced Salts 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate	38
X0507-500	500 ml	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	39
X0509-500	500 ml	HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	39
X0510-500	500 ml	HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	39
X0513-500	500 ml	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	39
X0515-100	100 ml	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	38
X0515-500	500 ml	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	38
X0520-500	500 ml	Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium	38
X0550-100	100 ml	L-Glutamine 100X, 200mM	46
X0551-100	100 ml	Glutamine stable 100X, 200mM	46
X0552-100	100 ml	BME Amino Acids 100X w/o L-Glutamine	45
X0554-100	100 ml	MEM Amino Acids 50X w/o L-Glutamine	45
X0556-100	100 ml	MEM Vitamins 100X w/o L-Glutamine	45
X0557-100	100 ml	MEM non Essential Amino Acids 100X w/o L-Glutamine	45
X0915-100	100 ml	Trypsin 2.5 % in PBS w/o Calcium w/o Magnesium w/o Phenol Red	44
X0920-100	100 ml	Trypsin 2.5 % in HBSS w/o Calcium w/o Magnesium w/o Phenol Red	44
X0930-100	100 ml	Trypsin-EDTA 10X	44
Amino Acids and Vitamins			44

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- Inter-community VAT number

3- Deliveries

31- 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.

32- 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

51- 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.

52- 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.

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

61- 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.

62- 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.

63- 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.

64- 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 laboratory use only (use in-vitro exclusively). They may not be used as medicine, ancillary products, as pharmaceutical or cosmetic preparations, farm product and human or veterinary use products. The buyer shall be solely responsible for their use.

65- 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.

ISO 9001

BUREAU VERITAS
Certification



*Biowest is member of
International Serum Industry Association*

* Only for Biowest SAS France

www.biowest.net



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