



Empowering Scientific Innovation

Catalogue of Classical Culture Media and Reagents



About JSBio

As a pioneer in China's cell culture medium industry, JSBio was established in 2011, headquartered in Nantong, Jiangsu Province, with R&D laboratories or production bases set up in multiple locations such as Shanghai, Gansu, San Francisco, USA, and Busan, South Korea. After over a decade of development and accumulation, JSBio's products have reached a level comparable to imported culture media in terms of performance, quality, and scale, becoming a high-quality supplier integrating R&D, production, sales of cell culture media, and cell culture technical services. JSBio is committed to becoming a world-class leader in cell culture technology and a premium supplier of culture media products. To achieve this mission, it perfectly combines advanced production techniques, scientific expertise, strict quality management, and superior technical services. As of now, its services span across numerous scientific research institutions, government agencies, large biotechnology companies, and pharmaceutical enterprises worldwide, amassing a wealth of successful cases replacing foreign manufacturers' culture media products.

Advantages of JSBio's Classical Culture Media and Reagents

With the following advantages, JSBio will accompany customers in addressing problems and challenges encountered during life science research, supporting a wide range of laboratory studies:

1 Comprehensive Product Lineup, Easy to Use

- A full series of Classical culture media products ensure meeting diverse demands (over one hundred types), with users having the flexibility to customize components, concentrations, pH values, etc.
- Detailed Documentation: Complete usage instructions, certificates of conformity, and safety data sheets are provided for corresponding products, ensuring ease of use.

2 Superior Performance

- Products undergo extensive cell growth experiments to verify their excellent quality and batch-to-batch consistency;
- We comply with GMP standards and have obtained certifications such as ISO9001, ISO13485, medical device certification, and also FDA DMF registration approved.

3 Flexible Customization:

- Tailored product formats, packaging specifications, and packaging forms can be provided upon request, ranging from liquid volumes of 500ml to 1000ml and beyond, suitable for both lab-scale and production-scale applications;
- Imported material packaging bottles offer outstanding sealing and coating protection for storage and usage.

4 Rigorous Quality Control Throughout the Supply Chain

- Finished products must pass stringent quality inspection procedures, including microbial testing, pH testing, osmotic pressure testing, and endotoxin testing.
- SOPs for logistics ensure temperature-controlled transportation, ensuring product stability and reliability.

5 Industry-Leading Delivery Lead Time

- Localized supply enables a fast turnaround time from order placement to lab entry, with the quickest being within 2 hours, fully aligning with clients' timing needs.

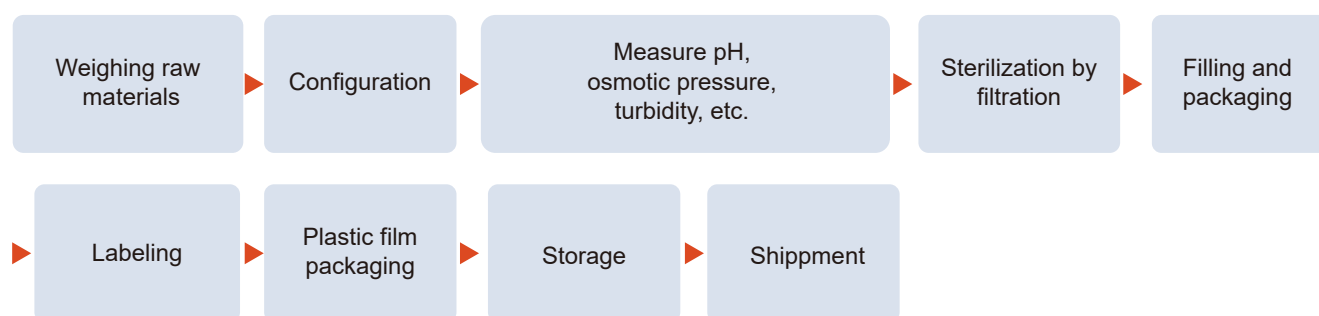
6 Efficient One-to-Many Technical Support:

- A nationwide network of sales and technical support systems provides prompt, multi-to-one support, responding quickly to customer needs.

Packaging Forms and Specifications of JSBio's Classical Culture Media and Reagents



Production Process of Liquid Classical Culture Media and Reagents by JSBio



Fully Automated Production and Testing of Liquid Culture Media and Reagents:



Fully Automated Solution Preparation System

Automatic dispensing systems with multiple batch sizes, including 200L, 650L, and 1000L, featuring full-process data interaction and efficient production.

Bag mixers, filters, and storage bags are utilized as one-time-use items, thereby minimizing the risk associated with cross-contamination.

Fully Automated Filling and Packaging Workshop

The fully automated liquid culture medium production line boasts high filling accuracy and stable flow rate of the culture medium liquids, thereby ensuring consistent product quality.

The aseptic filling production mode is implemented, effectively reducing the risk of cross-contamination.

The line has a capacity to fill between 400 to 600 bottles per hour, with a throughput of 400 liters per hour when using 1-liter bottles, and 300 liters per hour for 500 milliliter bottles, meeting the rigorous requirements of Good Manufacturing Practice (GMP) standards.

Independent Quality Control Laboratory

Comprehensive quality inspections are conducted, encompassing rigorous microbiological testing, physicochemical analysis, sterility checks, endotoxin testing within cells, cell growth assays, and multiple lamp inspections, ensuring stringent quality control measures.

Classical Media

JSBio's Celhappy® Series classical medium products encompass a variety of openly-formulated classical media tailored to support the growth of a wide array of mammalian cells. In order to cater to a broader spectrum of cell culture applications, JSBio not only offers equivalent alternatives to other brand's classical media, but also meets diverse client requirements in practical applications.

Component Customization

With/Without			
Gluc	HEPES	L-Gln	other
Sodium Pyruvate	Phenol Red	NaHCO ₃	

Celhappy® DMEM

The DMEM (Dulbecco's Modified Eagle Medium) is a widely used classical culture medium that is derived from the Eagle's Medium by augmenting the levels of certain amino acids and vitamins. It serves as a supportive environment for the proliferation of a broad range of mammalian cells. Currently, DMEM is the preferred choice of culture medium for various cell lines such as primary fibroblasts, neuronal cells, glial cells, smooth muscle cells, hybridoma cells, HeLa cells, COS-7 cells, and HEK293 cells, among others. These cell lines rely on DMEM for optimal growth and maintenance in a variety of research and biotechnological applications.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
DMEM	66001-005	4.0 mM	4.5 g/L	+	+	-	High glucose DMEM medium is commonly applied to rapidly growing and low-adherent cells, promoting cellular differentiation and supporting the growth of a wide variety of adherent mammalian cells.	12800	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized
	66001-077	-	4.5 g/L	-	+	-			
	66001-404	4.0 mM	4.5 g/L	+	-	-		12100	
	66001-417	4.0 mM	4.5 g/L	+	-	-		11965/ SH30022	
	66001-433	4.0 mM	4.5 g/L	+	+	-		11995/ SH30243	
	66001-475	4.0 mM	4.5 g/L	+	-	+		12430	
	66001-668	-	-	-	-	-	Low glucose DMEM medium is suitable for slow-metabolizing, anchorage-dependent cells and helps maintain a low-differentiated state of the cells.		Liquid: 500 mL/ 1000 mL/ Customized
	66001-007	4.0 mM	4.5 g/L	+	-	-			
	66001-434	4.0 mM	1.0 g/L	+	-	-		11885/ SH30021	
	66001-815	4.0 mM	1.0 g/L	+	-	-		11966	

Celhappy® MEM

MEM (Minimal Essential Medium) evolved from Classical Medium Eagle (BME), increasing the concentration of natural amino acids and vitamins. It is extensively used for cultivating a wide range of suspended and adherent mammalian cells, including cell lines like Hela cells, BHK-21 cells, HEK293 cells, HEp-2 cells, MCF-7 cells, fibroblasts, and primary rat astrocytes, among others. The MEM culture medium produced by JSBio contains Earle's Balanced Salt Solution, making it suitable for CO₂ incubation. Furthermore, this MEM medium is differentiated into two versions: one with and one without Non-Essential Amino Acids (NEAAs).

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
MEM (NEAA)	66003-001	2.0 mM	1.0 g/L	+	-	-	Widely used for the cultivation of various suspended and adherent mammalian cell types	41500	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized
	66003-796	-	1.0 g/L	-	-	-		M3024	
	66003-169	2.0 mM	1.0 g/L	+	-	-		61100	
MEM (Without NEAA)	66003-447	2.0 mM	1.0 g/L	+	-	-	MEM enriched with NEAAs minimizes the adverse effects of endogenous non-essential amino acid production during cell culture, effectively enhancing cell proliferation and metabolic activities.	11095/ SH30024	Liquid: 500 mL/ 1000 mL/ Customized
	66003-568	-	1.0 g/L	-	-	-			
	66003-583	-	1.0 g/L	+	-	-		SH30327	
	66003-795	-	1.0 g/L	+	-	-		11700	
	66003-785	2.0 mM	1.0 g/L	+	-	-		M0268	

Celhappy® MEM

Alpha-MEM is suitable for cultivating a variety of suspended and adherent mammalian cells, including keratinocytes, primary rat astrocytes, and human melanoma cells. It is an improved version of the MEM, enriched with Non-Essential Amino Acids (NEAAs), vitamin B12, biotin, ascorbic acid, sodium pyruvate, and lipoic acid. JSBio can provide Alpha-MEM media formulations both with and without nucleosides and deoxyribonucleosides.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium	HEPES			
Alpha-MEM With Nucleosides and Deoxyribo-nucleosides	66024-455	2.0 mM	1.0 g/L	+	+	-	For use with a wide range of suspended and adherent mammalian cells	11900	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized
Alpha-MEM Without Nucleosides and Deoxyribo-nucleosides	66024-818	2.0 mM	1.0 g/L	+	+	-	Commonly employed as a selection medium for DG44 and other DHFR-negative cell lines.	12561	Liquid: 500 mL/ 1000 mL/ Customized

Celhappy® DMEM/F12

The DMEM/F12 (Dulbecco's Modified Eagle Medium/Nutrient Mixture F12) is a 1:1 mixture of Dulbecco's Modified Eagle Medium (DMEM) and Ham's F-12 Nutrient Mixture.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
DMEM /F12	66005-004	-	-	-	+	-	Used to support the growth of a variety of mammalian cells, including fibroblasts, human endothelial cells, glial cells, MDCK cells, and others.	11330/ SH30023 11320 SH30004	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized Liquid: 500 mL/ 1000 mL/ Customized
	66005-050	2.5 mM	3.2 g/L	+	+	-			
	66005-206	2.5 mM	-	-	+	-			
	66005-269	2.5 mM	3.2 g/L	-	+	-			
	66005-294	-	4.0 g/L	-	+	-			
	66005-435	2.5 mM	3.2 g/L	+	+	+			
	66005-436	2.5 mM	3.2 g/L	+	+	-			
	66005-635	2.5 mM	3.2 g/L	+	+	+			
	66005-663	2.5 mM	-	+	-	-			
	66005-669	2.5 mM	3.2 g/L	-	+	+			

Celhappy® RPMI 1640

RPMI 1640 (Roswell Park Memorial Institute 1640) medium, compared to other classical media, contains reduced glutathione, inositol, choline, and higher concentrations of vitamins. RPMI 1640 is suitable for a variety of mammalian cell types, including HeLa cells, MCF-7 cells, PC-12 cells, PBMCs, astrocytes, and cancer cells, among others.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
RPMI 1640	66004-021	2.0 mM	2.0 g/L	+	-	-	Initially developed primarily for the cultivation of suspension cells (currently also utilized for the culture of a variety of adherent cell types).		Dry Powder: 2 L / 5 L / 10 L / 50 L / 100 L / 500 L / Customized Liquid: 500 mL / 1000 mL / Customized
	66004-104	2.0 mM	2.0 g/L	-	-	-			
	66004-441	2.0 mM	2.0 g/L	+	-	-		11875/SH30809	
	66004-442	2.0 mM	2.0 g/L	+	-	-		22400/SH30255	
	66004-443	-	2.0 g/L	+	-	-		21870	
	66004-445	-	2.0 g/L	-	-	-			
	66004-446	-	2.0 g/L	+	-	+		42401	
	66004-456	2.0 mM	2.0 g/L	+	-	-		31800	

Celhappy® M199

M199 (Medium 199) was initially developed for the cultivation and research of chicken embryonic fibroblast cells. Compared to other classical media, M199 includes additional lipid-soluble vitamins, cholesterol, as well as nucleotide precursors such as adenine, adenosine, hypoxanthine, and thymidine. Currently, M199 is widely used in virology, vaccine production, and the culture of various non-transformed cells.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
M199	66006-039	0.7 mM	1.0 g/L	+	-	-	Primarily used for the culture of chicken embryo fibroblast cells.		Dry Powder: 2 L / 5 L / 10 L / 50 L / 100 L / 500 L / Customized Liquid: 500 mL / 1000 mL / Customized
	66006-438	0.7 mM	1.0 g/L	-	-	-		11043	
	66006-439	0.7 mM	1.0 g/L	+	-	-		11150/SH30253	
	66006-440	-	1.0 g/L	+	-	-			
	66006-634	0.7 mM	1.0 g/L	+	-	-		31100	

Celhappy® IMDM

IMDM (Iscoe's Modified Dulbecco's Medium) is a modification of the original DMEM medium that has been augmented with the addition of selenium, amino acids, and vitamins, and employs potassium nitrate instead of ferric nitrate, thereby supporting cell lines such as COS-7 cells, Jurkat cells, and macrophages, among others.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
IMDM	66007-448	4.0 mM	4.5 g/L	+	+	+	Highly enriched medium, suitable for rapid proliferation and high-density cultures.	12440	Dry Powder: 2L / 5L / 10L / 50L / 100L / 500L / Customized Liquid: 500mL / 1000mL / Customized
	66007-074	4.0 mM	4.5 g/L	+	+	+			
	66007-732	4.0 mM	4.5 g/L	+	+	+		17633	

Celhappy® Ham's F-12

Ham's F-12 Nutrient Mixture was originally developed to support the clonal growth of Chinese hamster ovary (CHO) cells, Hela cells, and mouse L cells. The Ham's F-12, in comparison to other classical media, incorporates increased levels of zinc, putrescine, thymidine, and hypoxanthine. When supplemented with serum, it can be used for the cultivation of primary rat hepatocytes and rat prostate epithelial cells, among others.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
Ham's F-12	66009-437	1.0 mM	1.8 g/L	+	+	-	Suitable for single-cell culture and clonal propagation, serving as a common classical medium in serum-free culture systems.	11765/SH30026	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized Liquid: 500 mL/ 1000 mL/ Customized

Celhappy® GMEM

The Glasgow Minimum Essential Medium (GMEM) is a modified form of Eagle's Minimal Essential Medium. Initially developed by Ian McPherson and Michael Stoker, it is used for studying genetic factors influencing cellular capabilities and is also suitable for culturing renal cell lines, such as BHK-21.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
GMEM	66010-717	2.0 mM	4.5 g/L	+	-	-	Applicable for research on genetic factors affecting cellular capabilities.	G6148	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized Liquid: 500 mL/ 1000 mL/ Customized

Celhappy® McCoy's 5A

McCoy's 5A is a versatile medium capable of supporting proliferation in a wide array of primary cells, established cell lines, and biopsy tissue explants. It is suitable for cultivating primary mammalian cells derived from bone marrow, skin, spleen, kidney, lung, rat embryos, and other tissues.

Product	Catalog No.	Description					Application	Control Media	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES			
McCoy's 5A	66026-450	1.5 mM	3.0 g/L	+	-	-	Supports a wide variety of primary cells and challenging-to-culture cells such as lymphocytes.	16600/SH30200	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized Liquid: 500 mL/ 1000 mL/ Customized

Celhappy® Leibovitz's L-15

Leibovitz's L-15 utilizes a phosphate and free basic amino acid buffering system in place of sodium bicarbonate, making it suitable for cell culture in non-CO₂-equilibrated environments, and supports cell culture of HEp-2 monkey kidney cells as well as primary tissue block cultures from embryonic and adult tissues.

Product	Catalog No.	Description					Application	Form and Package Size
		L-Gln	Gluc	Phenol Red	Sodium Pyruvate	HEPES		
Leibovitz's L-15	66027-449	-	0.9 g/L	+	+	-	Supports in vitro culture of HEp-2, LLC-MK2 cells, and primary embryonic and adult tissues, with successful viral propagation achieved in this medium for multiple virus types.	Dry Powder: 2 L/ 5 L/ 10 L/ 50 L/ 100 L/ 500 L/ Customized Liquid: 500 mL/ 1000 mL/ Customized

Related Reagent Products

JSBio's Celsource series encompasses a range of reagents and supplements used throughout the cell culture process, which mainly consist of balanced salts, biological buffers, cell culture additives, cell dissociation reagents, cell cryopreservation solutions, and cell culture-grade water.

Balanced Salt Solution Products

JSBio Celsource series of balanced salt solutions includes products such as PBS (Phosphate Buffered Saline), DPBS (Dulbecco's Phosphate Buffered Saline), HBSS (Hank's Balanced Salt Solution), and EBSS (Earle's Balanced Salt Solution). These solutions cater to a variety of cell culture applications, such as rinsing, diluting, preserving various cells and tissues, as well as preparing different reagent solutions. Not only does JSBio meet diverse customer requirements for different compositions, concentrations, product formats, and packaging specifications, but it also offers equivalent balanced salt solution products that compare favorably to those from other brands in the market.

Component Customized

With/Without					
	Phenol Red	NaHCO ₃	Ca ²⁺	Mg ²⁺	Other Component
Product	Characteristics	Catalog No.	Description	Control	Form and Package Size
PBS	Without calcium ions, magnesium ions, or phenol red	99001-014	Washing solutions, cryopreservation media, and culture media for embryos, tissues, and cells.	21600	
DPBS	Without Calcium ions, Magnesium ions, or Phenol Red	99002-640			
HBSS	With Calcium ions, Magnesium ions, Glucose, Phenol red, and bicarbonate	99004-082	The salt composition in HBSS buffer is more complex than in PBS and DPBS, and it contains glucose, providing a simple nutrient source for cells.		
	With Calcium ions, Magnesium ions, Glucose, and Phenol Red; Without Sodium Bicarbonate	99004-119			
	With Calcium ions, Magnesium ions, Glucose, and Phenol Red; Without Sodium Bicarbonate	99004-584	Used for washing tissue blocks, organs, or cells in vitro experiments, transporting cells or tissues, preparing cell culture reagents, acting as a diluent for cell counting, and also applicable in experiments involving cellular uptake and transport.		
	With Calcium Ions, Magnesium Ions, Glucose; Without Phenol Red and NaHCO ₃	99004-602			
EBSS	With calcium ions, magnesium ions, glucose, NaHCO ₃ , and phenol red	99003-368	It serves in the same capacity for tissue/organ washing, cell/tissue transportation, reagent preparation for cell culture, and as a diluent for cell counting, as well as being used for inducing autophagy in cells in vitro.		Liquid: 500 mL/ 1000 mL/ Customized
	With calcium ions, magnesium ions, glucose, NaHCO ₃ ; Without Phenol Red	99003-369			
	With Calcium Ions, Magnesium Ions, Glucose; Without Phenol Red and NaHCO ₃	99003-419	For storing tissues in a CO ₂ incubator, EBSS is required.		
	With Calcium Ions, Magnesium Ions, Glucose, and Phenol Red; Without NaHCO ₃	99003-518			
	With Calcium Ions, Magnesium Ions, Glucose, Phenol Red, and Sodium Bicarbonate.	99003-072			

Biological Buffer Solutions

JSBio's Celsource series of buffer solutions include HEPES solution and Tris-HCl solution. JSBio is able to provide buffer solutions in varying concentrations, meeting diverse needs across various biochemical research applications for its clients.

Product	Catalog No.	Description	Control	Form and Package Size
HEPES	99005-22012	Adding 10-25 mM HEPES provides supplementary buffering capacity	15630	Liquid: 100 mL/ 250 mL/ 500 mL/ 1000 mL/ Customized
Tris-HCl	99006-22013	It is widely used as a solvent for proteins and nucleic acids.	15567	

Cell culture additive solution products

JSBio's Celsource series of cell culture additive solutions comprises a variety of reagents added during the cell culture process. To meet the diverse requirements of customers in their practical research, JSBio can provide cell culture additive solutions in varying concentrations.

Product	Catalog No.	Description	Control	Form and Package Size
L-Glutamine (200 mM)	99028-17029	Important amino acid additives are commonly added to mammalian cell culture media, serving as an auxiliary energy source, especially when cells undergo rapid division	25030/ SH30034	Liquid: 100 mL/ 250 mL/ 500 mL/ 1000 mL/ Customized
Glucose Solution (300 g/L)	99024-16023	These additives function as a significant source of cellular metabolic energy and help reduce carbon production		
HT Concentrate (100X)	99023-13003	They are suitable for aiding cell recovery post-screening, overcoming the effects of residual intracellular aminopterin	11067	
Sodium Pyruvate (100 mM)	99027-22014	Sodium pyruvate is often also included in cell culture media as a carbon source	11360/ SH30329	
Sodium bicarbonate (1M)	99029-22015	Commonly used buffering agents that maintain the pH value of cell culture media		
Sodium carbonate (1M)	99028-17027			
MTX (1mM)	99031-17030			
Insulin	99032-15059	Initially designed for use with RPMI 1640 and Minimum Essential Medium (MEM), these additives are now typically used in combination with other classical media to support various cell types under conditions containing 2-4% fetal bovine serum (FBS)		
PF-68 (100g/L)	99009-19033	Nonionic surfactants, used to control shear forces in suspension cultures and can also reduce foam formation during agitation, as well as minimize cell adherence to glass surfaces		
MEM Vitamin Solution (100X)	99037-16004	Serving as growth supplements in cell culture media, they enhance cell growth and viability	11120	
Anti-Clumping Agent (300X)	99007-22016	Concentrated liquid reagents that can reduce cell clumping and facilitate achieving higher densities of viable cells in suspension cultures	0010057AE	

Cell dissociation and digestion reagent solutions

JSBio Celsource series of cell dissociation and digestion reagent solutions are primarily applied in cell detachment and digestion processes.

Product	Catalog No.	Description	Control	Form and Package Size
0.25% Trypsin-EDTA	99008-14020	Widely used for cell dissociation, routine cell passaging in cell culture, and primary tissue dissociation.	25200/SH30042	Liquid: 100 mL/ 250 mL/ 500mL/ 1000mL/ Customized
0.5% Trypsin-EDTA	99008-22017			
Recombinant Trypsin-EDTA)	99111-21009	Can replace traditional trypsin-based digestion solutions and is completely free of animal-derived substances.		

Purified Water for Cell Culture

JSBio Celsource series of cell culture water is sterile purified water specifically designed for cell culture purposes.

Product	Catalog No.	Description	Form and Package Size
Purified Water for Cell Culture (Sterile)	99068-22018	Can be used as a solvent in various upstream and downstream processes.	Liquid: 100 mL/ 250 mL/ 500 mL/ 1000 mL/ Customized

JS Biosciences Co., Ltd.



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