

CELL CULTURE SOLUTIONS

Empowering Scientific Exploration:
A Comprehensive Guide to Cell Culture Solutions



Bioscience

Shanghai
Bioscience

Cell culture refers to a cultivation technique where cells are extracted from in vivo tissue to simulate the internal environment. Under sterile conditions, appropriate temperature and pH levels, and specific nutritional requirements, these cells are enabled to proliferate while maintaining their structure and function. Baise provides essential consumables and instruments for in vitro cell culture, including cell culture media, transfection reagents, foetal bovine serum, culture reagents, and related supplies.

I. CELL SEPARATION AND EXTRACTION

Cell separation and extraction constitute the initial stage of cell culture, aiming to efficiently obtain highly viable target cells from tissue or liquid samples. Common approaches include enzymatic digestion (e.g., using collagenase or trypsin) to break down the extracellular matrix, or specific separation techniques such as density gradient centrifugation and magnetic bead sorting. The key objective is to preserve cell integrity and function while removing contaminating cells, thereby providing a pure starting population for subsequent culture. The success of this step directly determines the reliability and reproducibility of subsequent experiments.



CELL FILTER

REF BS6404040

40µm

REF BS6404070

70µm

REF BS6404100

100µm

Features

- Imported nylon mesh
- Circular handle design for ease of operation
- Compatible with 50mL centrifuge tubes

Applications

For cell separation, culture, and sample filtration in biological laboratories

ORDERING INFORMATION

CATEGORY	NAME	BRAND	SKUS	SPECIFICATIONS	DESCRIPTION
Consumables	Filter	IOLEADER	BS6330033	1 per pack, 100 packs per box, 10 boxes per carton	Needle Filter, PES Membrane 033mm, 0.22µm Sterile
	Cell Culture Dish	IOLEADER	BS6211060	10 per pack, 50 packs per carton	Diameter 60mm, plasma-treated surface
		IOLEADER	BS6220060	10 per pack, 500 per carton	Diameter 60mm, reagent TC surface Enhanced
	Centrifuge Tube	IOLEADER	BL2002500	25 per bag, 20 bags per carton	50mL centrifuge tube, PP material
	Cell Strainer	IOLEADER	BS6404040	1 per pack, 100 packs per box	Cell filter, 40µm, blue
			BS6404070	1 per pack, 100 packs per box	Cell filter, 70µm, white
BS6404100			1 per pack, 100 packs per box	Cell filter, 100µm, yellow	
Reagent	Trypsin	Uelandy®	DDTEDPR100	100mL/bottle	Trypsin - Calcium- and Magnesium-Free, Phenol Red-Containing (Dissolved in D-Hank's)
		Uelandy®	DDDT100	100mL/bottle	Pancreatic Enzymes - Calcium- and Magnesium-Free, Phenol Red-Free (Dissolved in D-Hank's)
	Buffer Solution	Uelandy®	DZ8023	500mL	PBS Buffer, 1×
		Uelandy®	DZ8024	500mL	PBS Buffer, 10×
Apparatus	Water Bath	LA WAVE	WB-0005	Bench	Smart Constant Temperature Water Bath, 5°C-99°C, Capacity 5L
	Centrifuge	LA WAVE	LC-0100N	Benchtop	Compact bench-top low-speed centrifuge
		LA WAVE	HC-3000R	Benchtop	High-Speed Refrigerated Centrifuge

II. CELL CULTURE AND EXPANSION

This stage provides all conditions necessary for in vitro cell growth, including optimal temperature (typically 37°C), pH (7.2-7.4), gas environment (5% CO₂ in), and nutrient supply (basal medium + serum/growth factors). Regular passaging maintains cells in the logarithmic growth phase, enabling large-scale expansion. Strict aseptic techniques must be maintained to prevent contamination, and culture parameters should be optimised according to cell type to ensure stable morphology, proliferative capacity, and functional state.



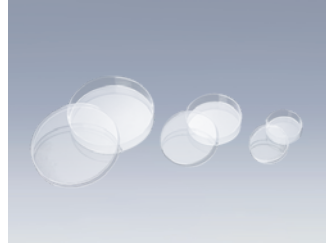
CELL CULTURE FLASKS

Features

- High precision, smooth surface High
- Efficiency, excellent uniformity
- Vacuum plasma treatment, excellent hydrophilicity

Applications

Primarily used for cell culture in laboratory or industrial production processes during cell culture expansion stages.



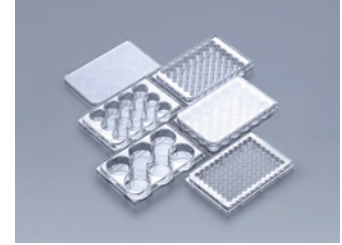
CELL CULTURE DISHES

Features

- Multiple sizes and comprehensive range Imported polystyrene material
- Lid design facilitates optimal gas exchange
- Stacking ring design enables convenient stacking
- Flat, smooth dish base with no distortion and uniform thickness

Applications

Suitable for plant and microbial cultures, and adherent animal cell cultures.



CELL CULTURE PLATES

Features

- Uniform plate base thickness and consistent well diameter
- Specialised well rim design prevents cross-contamination
- Surface is non-cytotoxic, biologically inert and non-degradable

Applications

For laboratory cell culture experiments, bacterial strain selection, etc.



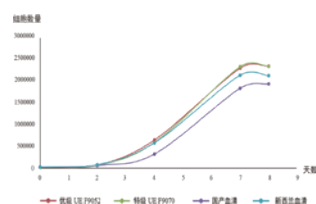
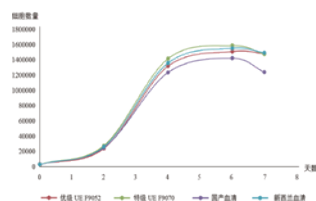
FETAL BOVINE SERUM

Features

- High Quality and Stability
- Traceability
- Pure natural ingredients

Advantages

Sourced from premium Inner Mongolian pastures, with clearly traceable fetal bovine serum origins. Free from artificial additives, providing essential nutrients and growth factors for cells.



Cell Proliferation Testing

Experimental evidence indicates that F9070 and F9052 perform comparably to imported sera and surpass domestic alternatives.



LIVE CELL MONITORING SPECIALIST

Features

- Lightweight and Compact
- User-friendly operation
- Real-time monitoring
- Excellent economy

Key Parameters

- Resolution: 1.875μm/pixel
- Field of view: 2.25 × 2.25 mm
- Magnification: 10x, 20x (digital magnification)
- Dimensions: 175 × 120 × 140 mm



CARBON DIOXIDE INCUBATOR
































Features

- User-friendly design
- Contamination control
- Intelligent touchscreen
- Temperature Control
- Imported CO₂ sensor
- Data management

Volume

155L / 190L / 240L

ORDERING INFORMATION

CATEGORY	NAME	BRAND	SKUS	SPECIFICATIONS	DESCRIPTION
Consumables	Pipettes	 BIOLEADER	BS1917010	50 pipettes per bag, 4 bags per box	10ml pipettes, individually wrapped Paper/plastic packaging
	Cell Culture Flasks (Adherent)	 BIOLEADER	BS6003075	5 per pack, 20 packs per carton	Cell culture flask, T75, rectangular Ventilated Lid, TC Surface
		 BIOLEADER	BS6003175	5 per pack, 8 packs per carton	Cell culture flask, T175, rectangular Vented lid, TC surface
	Cell Culture Dish (Adherent)	 BIOLEADER	BS6211100	10 per pack, 30 packs per carton	Cell culture dish, diameter 100mm TC surface
		 BIOLEADER	BS6220100	10 per pack, 200 per carton	Cell culture dish, diameter 100mm TC surface, enhanced
	Cell Culture Plate (Adherent)	 BIOLEADER	BS6602024	1 per pack, 50 packs per carton	Cell culture plate, 24-well plate TC surface
		 BIOLEADER	BS6620024	1 per pack, 100 per carton	Cell culture plate, 24-well plate TC surface, enhanced
		 BIOLEADER	BS6602196	1 per pack, 50 packs per carton	Cell culture plate, 96-well plate TC surface
		 BIOLEADER	BS6610384	1 per bag, 160 per box	Cell culture plate, 384-well plate TC surface
	Rolling Bottle	 BIOLEADER	BS600902L	2 per pack, 20 packs per carton	Cell roller bottle, wrinkle-free design Sealing cap, plasma-treated TC surface
		 BIOLEADER	BS601902L	2 per pack, 20 packs per carton	Cell roller bottle, pleated design, vented cap with plasma-treated TC surface
	Cell Culture Dishes (Suspension)	 BIOLEADER	BS6230100	10 per pack, 40 per box	Cell culture dish, 100mm diameter Ultra-low adsorption surface
		 BIOLEADER	BS6230150	10 per pack, 60 per box	Cell culture dish, diameter 150mm Ultra-low binding surface
	Cell Culture Plate (Suspension)	 BIOLEADER	BS6630096	1 per box, 48 per carton	Cell culture plate, 96-well plate,Transparent, Lid-Sealed, Flat-Bottom, Sterile, Ultra-Low Binding
		 BIOLEADER	BS6630196	1 tube/box, 48 tubes/carton	Cell culture plate, 96-well plate,Transparent, capped, U-bottom, sterile, ultra-low binding
		 BIOLEADER	BS6630384	1 tube/box, 48 tubes/carton	Cell culture plate, 384-well plate,Transparent, capped, flat-bottomed, sterile, ultra-low-binding
Reagent	Fetal Bovine Serum	 Uelandy®	F9070L	500mL	Premium Grade Fetal Bovine Serum
		 Uelandy®	F9052L	500mL	Premium Grade Fetal Bovine Serum
		 Uelandy®	F9010L	500mL	Fetal Bovine Serum
	Culture Medium	 Uelandy®	DD1XRPMI500	500mL	RPMI 1640 Medium (1x),Containing 25 mM HEPES, L-glutamine, phenol red
		 Uelandy®	DD1XDMH500	500mL	DMEM (High Glucose) Medium (1x), containing L-glutamine Sodium pyruvate, phenol red, HEPES, sodium bicarbonate
		 Uelandy®	DD1XDMF500	500mL	DMEM/F-12 (1:1) Cell Culture Medium (1x), containing L-glutamine Sodium pyruvate, HEPES, phenol red, sodium bicarbonate
		 Uelandy®	DD1XMEM500	500mL	MEM cell culture medium (1x), containing L-glutamine Sodium pyruvate, phenol red, sodium bicarbonate; without HEPES
Instruments	Pipette	 LAB WAVE	WAVEES017	100-1000µL	Single-channel manual pipette
		 LAB WAVE	WAVEES018	100-5000µL	Single-channel manual pipette
		 LAB WAVE	PF-1200E	Pipette	Large-Capacity Electric Pipette Controller
	Incubator	 LAB WAVE	CI-0150N	Unit	CO ₂ Incubator, 155L capacity, 750W power
		 LAB WAVE	CI-0240N	Model	CO ₂ Incubator, 240L capacity, 900W power
		 LAB WAVE	SI-0100	Benchtop	Stackable CO ₂ Incubator, Oscillation Frequency 40-300rpm 1200W
		 LAB WAVE	SI-0400	Model	Stacking CO ₂ Incubator, Oscillation Frequency 40-300 rpm 1401W
	Live Cell Monitoring Specialist	 LAB WAVE	CM-0001	Unit	Can be placed in incubator for 24/7 uninterrupted imaging

III. CELL COLLECTION AND CHARACTERIZATION

Upon reaching the desired cell number or state, cells require harvesting and systematic characterisation. Harvesting commonly employs trypsin digestion or mechanical scraping. Characterisation encompasses cell counting and viability assessment (e.g., trypan blue staining), purity analysis (flow cytometry for marker detection), functional validation, and microbial contamination testing. This stage constitutes a critical quality control measure for evaluating culture quality and ensuring cells meet downstream experimental or application requirements.



CCK-8 CELL PROLIFERATION ASSAY KIT (C6005)

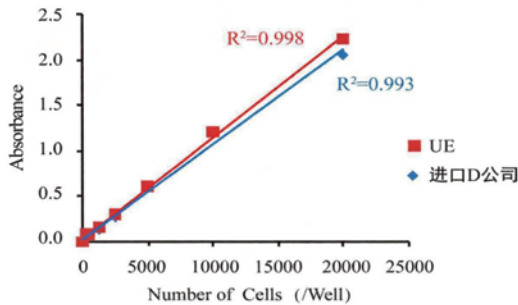
Features

- Simple & Rapid
- Safe & Low-Toxicity
- Reliable Results
- Excellent Stability

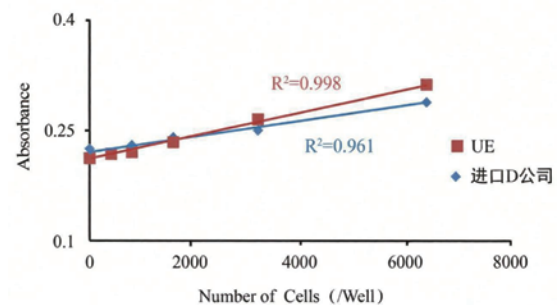
Outperforms at low cell densities

- With larger cell numbers, no significant difference in detection efficacy between the two reagents
- With smaller cell numbers, UE reagent exhibits better linearity

Detection of HEK293 cell viability at low cell densities



Detection of HeLa cell viability at high cell densities

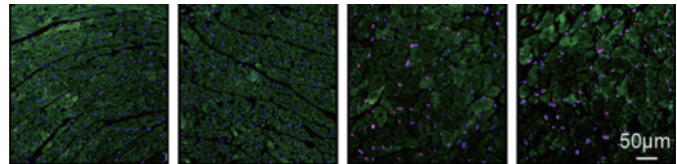


TUNEL APOPTOSIS DETECTION KIT

The TUNEL kit offers multiple colour options, with labelled YF dyes exhibiting.

Features

- High Sensitivity
- Broad Applicability
- Single-Cell Detection
- Quantitative Detection



One-step TUNEL with comprehensive colour options

Cardiac sections stained with α-actinin (green) and DAPI (blue) (left), and TUNEL (red, Cat# T6014) (right).

FULLY AUTOMATED CELL COUNTER (BRIGHTFIELD/FLUORESCENCE)



Brightfield model (CC-0001)



Fluorescence model (CC-0002)

Features

- High-definition imaging
- Intelligent Analysis
- One-Touch Mode
- Beyond Counting

CONSUMABLES-FREE CELL COUNTER

The consumables-free cell counter is a modular cell counting system integrating precise counting with intelligent analysis. Featuring high-definition imaging, 2-second counting, and consumables-free operation, it is specifically designed for cell-related research personnel. Replacing traditional manual counting, it enhances cell counting efficiency by 100-fold, effectively supporting cell experiments. Widely utilised in cell culture laboratories across research institutions, medical facilities, and biopharmaceutical enterprises.













Features

- Accurate Identification
- No Consumables Required
- Efficient Enumeration
- Comprehensive Analysis

Non-consumable model (CC-0003)

ORDERING INFORMATION

CATEGORY	NAME	BRAND	SKUS	SPECIFICATIONS	DESCRIPTION	
Consumables	Tips	 BIOLEADER	BS10431ML	96 pieces/box, 10 boxes/master carton 5 master cartons/case	1mL blue pipette tips, boxed, sterile	
		 BIOLEADER	BS10015ML	24 pipettes per box, 3 boxes per master carton 10 master cartons per case	5mL clear tips, Type A narrow bore, boxed, sterile	
		 BIOLEADER	BS10135ML	24 pipettes per box, 3 boxes per master carton 10 master cartons per case	5mL transparent pipette tips, Type B wide bore, boxed, sterile	
	Centrifuge Tubes	 BIOLEADER	BS20022500	4 per pack, 10 packs per carton	250mL centrifuge bottle, PP material, sealed cap	
		 BIOLEADER	BS20025000	4 per pack, 10 packs per carton	500mL centrifuge tube, PP material, sealed cap	
Reagent	Cell Viability	 Uelandy®	A6201L	500 Tests	AO/PI Cell Viability Assay Kit	
		 Uelandy®	A6103	500 Tests	ATP Luminescent Cell Viability Assay Kit	
		 Uelandy®	C6003	50 Tests	Calcein AM Cell Viability Assay Kit	
		 Uelandy®	C6005M	500 Tests	Cell Counting Kit-8 (CCK-8) Cell Proliferation Assay Kit	
		 Uelandy®	C6043M	500 Tests	YF488 Click-iT EdU Universal Cell Proliferation Assay Kit (Green Fluorescence)	
		 Uelandy®	C6044M	500 Tests	YF555 Click-iT EdU Universal Cell Proliferation Assay Kit (Orange-Red Fluorescence)	
		 Uelandy®	C6045M	10-100 Tests	YF594 Click-iT EdU Universal Cell Proliferation Assay Kit (Red Fluorescence)	
		 Uelandy®	C6046M	10-100 Tests	YF647A Click-iT EdU Universal Cell Proliferation Assay Kit (Far-Red Fluorescence)	
		 Uelandy®	L6023M	150 Tests	Live & Dead™ Animal Cell Viability/ Toxicity Assay Kit (Calcein AM, EthD-I)	
	Apoptosis Assay	 Uelandy®	Y6002M	50T	YF®488-Annexin V/PI Apoptosis Detection Kit	
		 Uelandy®	Y6026M	50T	YF®647A-Annexin V and PI Apoptosis Kit	
		 Uelandy®	Y6102M	50T	YF®488-Annexin V and RedNucleus II Apoptosis Kit	
		 Uelandy®	T6013L	50T	YF® 488 TUNEL Apoptosis Assay Kit (Green, Universal)	
		 Uelandy®	T6014L	50T	YF® 594 TUNEL Apoptosis Assay Kit (Red, Universal)	
		 Uelandy®	T6039L	50T	YF® 555 TUNEL Apoptosis Assay Kit (Orange-Red, Universal)	
		 Uelandy®	T6063L	50T	YF® 640 TUNEL Apoptosis Assay Kit (Far-red, Universal)	
		 Uelandy®	T6068L	50T	Biotin TUNEL Apoptosis Assay Kit	
		 Uelandy®	S6007L	100T	SuperView™ 488 Caspase-3 Live Cell Analysis Kit	
		 Uelandy®	Y6077	50T	Oxazole Yellow/PI Membrane Permeability Apoptosis Detection Kit	
	Cell Cycle	 Uelandy®	C6031S	50T	Cell Cycle and Apoptosis Kit (Cell Cycle Detection Kit)	
	Cell Senescence	 Uelandy®	C6049	100T	Cell Senescence β-Galactosidase Staining Kit	
	Instrument	Cell Counter	 LA WAVE	CC-0001	Bench	Fully Automatic Cell Counter, 10X Standard Objective Lens 6-well counting chamber, brightfield model
			 LA WAVE	CC-0002	Bench	Fully Automatic Cell Counter, 10X Standard Objective Lens 6-well counting chamber, fluorescence model
 LA WAVE			CC-0003	Bench	Consumables-free cell counter, 4X standard objective lens	
Pipette		 LA WAVE	WAVES017	100-1000µL	Single-channel manual pipette	
		 LA WAVE	WAVES018	100-5000µL	Single-channel manual pipette	

IV. CELL CRYOPRESERVATION AND RECOVERY

To ensure the long-term preservation of cell resources and maintain the stability of cell lines, programmed cryopreservation techniques must be employed. Cells are mixed with a cryoprotectant solution (such as DMSO) and subjected to controlled cooling before storage in liquid nitrogen at -196°C . During thawing, rapid decryopreservation and gentle washing are required to remove cryoprotectants and maximise cellular recovery. Standardised cryopreservation and thawing protocols form the foundation for ensuring the sustainable use of cell banks and the reproducibility of experiments.



FREEZING MEDIUM

Serum-free cell cryoprotectant solution, ready-to-use

Features

- Reduces contamination risk
- Time-saving and convenient
- High efficacy
- Convenient to use



COLORED CRYOVIALS

Features

- Temperature tolerance: -196°C to 121°C
- DNase-, RNase-, and pyrogen-free
- Graduated scale and writing area on tube body
- Suitable for storage in liquid nitrogen
- Irradiation sterilised to SAL 10^{-6} standard



CELL THAWING DEVICE

Features

- Intelligent algorithm
- Suitable for various sample types
- Real-time display
- Data Export



PAPER CRYOPRESERVATION BOXES

Features

- Box body constructed from extra-thick cardboard, waterproof and durable
- Temperature tolerance: -196°C to 121°C , suitable for liquid nitrogen Flip-top
- Cryopreservation box with internal polypropylene dividers
- Available in 81-well or 100-well configurations

ORDERING INFORMATION

CATEGORY	NAME	BRAND	SKUS	SPECIFICATIONS	DESCRIPTION
Consumables	Cryopreservation Tube	BIOLEADER	BS2704020-Y	50 per pack, 20 packs per carton	Needle Filter, PES Membrane 0.33mm, 0.22 μm Sterile
		BIOLEADER	BS2704015-B	50 per pack, 20 packs per carton	1.5ml external twist cryovials, blue caps
		BIOLEADER	BS2704005-W	50 per pack, 20 packs per carton	0.5ml twist-off cryovials, white caps
		BIOLEADER	BS2602020	50 per pack, 30 packs per carton	Internal twist cryovials, 2.0ml, round-bottom
	Freezing Box	BIOLEADER	BS2702050	50 per pack, 20 packs per carton	Cryopreservation tube, 5.0ml, round-bottom Self-standing, external twist-off cap, sterile
		BIOLEADER	BS7817081-CM	5 per pack, 4 packs per carton	81-well cryopreservation box, 3.75 inches Polycarbonate, top and bottom lids, assorted colours
Reagent	Freezing Solution	Uelady®	S9050L	100ml	Serum-free cell cryopreservation medium, ready-to-use
		LA WAVE	G002	Bench	2-well cell thawing device
Instrument	Constant Temperature Water Bath	LA WAVE	WB-0005	Bench	Intelligent Constant Temperature Water Bath, 5 $^{\circ}\text{C}$ -99 $^{\circ}\text{C}$, 5L Capacity
	Centrifuge	LA WAVE	LC-0100N	Benchtop	Compact bench-top low-speed centrifuge
		LA WAVE	HC-3000R	Benchtop	High-Speed Refrigerated Centrifuge

ABOUT US

Founded in 2005, Shanghai BioScience Co., Ltd. is a platform-based service provider focused on the life sciences services sector, operating 29 offices/branches and managing over 300,000 product categories. With the mission of "Serving Science," the company has built a multi-dimensional product matrix to meet the needs of various research and production scenarios. It has established strategic partnerships with globally renowned enterprises such as Corning, Takara Bio, Danaher, and Thermo Fisher Scientific, while also maintaining close collaborations with over 20 top-tier life science brands in the industry, helping researchers achieve greater progress in the exploration of life sciences. Bioscience has become the exclusive national general distributor for Takara Bio in China.

BioScience Prime® is the collective name for the company's proprietary brands, covering four major categories: laboratory instruments, consumables, reagents, and technical services. Upholding Bioscience's consistent philosophy of innovation and dedication, BioScience Prime® leverages its self-built supply chain and technical service center to provide global life science researchers with high-quality, one-stop laboratory solutions.



BIOLEADER

Specialists in
Laboratory Plastic
Consumables
Exclusive Supplier
to Industry Leaders
for 6+ Years

Uelandy®

Pioneers of
Fluorescent Dyes
in China's Biotech
Industry

LAB WAVE

Next-Generation
Instruments for Cell,
Molecular, Physical
Chemistry & General
Applications

BIOSUNE

Advanced sequencing
platform

BIOPOHE

Customized Primer
Synthesis RNA
Synthesis