Вспомогательные реагенты для клеточной биологии

Технические характеристики

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Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

эл.почта: sih@nt-rt.ru || сайт: https://servicebio.nt-rt.ru/

Servicebio® 5M NaCl (Sterile)

Cat. No.: G3069

Product Information

Product Name	Cat.No.	Spec.
5M NaCl (Sterile)	G3069-100ML	100 mL

Description/Introduction

5M NaCl is a Sterile 5M sodium chloride solution that is widely used in biochemistry and molecular biology experiments.

This product uses high purity sodium chloride, prepared with ultra-pure water, and is filtered by 0.22μm to remove bacteria.

Storage and Handling Conditions

Store at room temperature for one year.

Servicebio® DPBS

Cat No.: G4200

Product Content

Product Name	Cat. No.	Spec.
DPBS	G4200-100ML	100 mL
DPBS	G4200-500ML	500 mL

Product Description

DPBS (Dulbecco's phosphate buffered saline) is a balanced salt solution used for a variety of cell culture applications, including washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. DPBS is formulated without calcium and magnesium.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 μm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of DPBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of DPBS is as follows:

- 2.68 mM KCl, 1.47 mM KH_2PO_4, 137 mM NaCl, 8.0 mM Na_2HPO_4, pH 7.2-7.8@25℃
- Without calcium, magnesium, phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® DPBS

Cat No.: G4200

Product Content

Product Name	Cat. No.	Spec.
DPBS	G4200-100ML	100 mL
	G4200-500ML	500ML

Product Description

DPBS (Dulbecco's phosphate buffered saline) is a balanced salt solution used for a variety of cell culture applications, including washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. DPBS is formulated without calcium and magnesium.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 μm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of DPBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of DPBS is as follows:

- 2.68 mM KCl, 1.47 mM KH_2PO_4, 137 mM NaCl, 8.0 mM Na_2HPO_4, pH 7.2-7.8@25℃
- Without calcium, magnesium, phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® DPBS Buffer, Containing Calcium And Magnesium Ions

Cat #: G4201-500ML

Product Information

Product Name	Cat.No.	Spec.
DPBS Buffer, Containing Calcium And Magnesium Ions	G4201-500ML	500 mL

Description

DPBS buffer, namely Dulbecco's phosphate-buffered Saline, is a kind of balanced salt solution widely used in biological and biochemical studies, which has a slightly lower Phosphate content than conventional PBS buffer. DPBS IS mainly USED in embryological research, and can BE used as rinse solution, cryopreserved solution and culture medium for embryos and tissues. Glucose and sodium pyruvate can be added to DPBS as needed to maintain the basic nutrition of the culture.

This product contains calcium and magnesium ions and does not contain phenol red.

Ingredients: 2.68mM KCl, 1.47mM KH2PO4, 137mM NaCl, 8.0mM Na2HPO4, 0.9mM CaCl2, 0.49mM MgCl2, pH 7.2-7.8@25℃. The bacteria were removed by 0.1 μm filtration.

Storage and Handling Conditions

Transport and store at room temperature, valid for 24 months.

Component

DPBS Buffer Component				
Component	G4200-500ML		G4201-500ML	
	mg/L	mM	mg/L	mM
KCl	200	2.68	200	2.68
KH2PO4	200	1.47	200	1.47
NaCl	8000	137	8000	137
Na2HPO4•12H2O	2886	8.0	2886	8.0
CaCl2 (anhydrous)	-	-	100	0.9
MgCl2•6H2O	-	-	100	0.49

Note:

1. The product is sterilized by 0.1μm filtration and can be used directly.
2. This product contains calcium and magnesium ions, which are easy to produce trace precipitation and can be dissolved after warm water bath. If too much precipitation can not be dissolved, please stop using.
3. Please pay attention to aseptic operation when using this product to avoid contamination.

Servicebio® PBS (Phosphate Buffered Saline), 1×

Cat. No.: G4202-500ML

Product Content

Name	Cat No.	Size
PBS (Phosphate Buffered Saline), 1×	G4202-100ML	100 mL
	G4202-500ML	500 mL

Product Description

PBS (phosphate buffered saline) is a balanced salt solution used in cell culture manufacturing and upstream process development. PBS acts as a buffer to help maintain pH in cell culture media. PBS is well suited for washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. PBS is formulated without calcium and magnesium.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 μm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of PBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of PBS is as follows:

- 2.7 mM KCl, 2.0 mM KH_2PO_4, 137 mM NaCl, 10 mM Na_2HPO_4, pH 7.2-7.5@25℃。
- Without calcium, magnesium, phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature
Shipping conditions: Room temperature
Shelf life: 24 months from date of manufacture

Servicebio® PBS (Phosphate Buffered Saline), 1×

Cat. No.: G4202-500ML

Product Content

Name	Cat No.	Size
PBS (Phosphate Buffered Saline), 1×	G4202-100ML	100 mL
	G4202-500ML	500 mL

Product Description

PBS (phosphate buffered saline) is a balanced salt solution used in cell culture manufacturing and upstream process development. PBS acts as a buffer to help maintain pH in cell culture media. PBS is well suited for washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. PBS is formulated without calcium and magnesium.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 μm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of PBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of PBS is as follows:

- 2.7 mM KCl, 2.0 mM KH_2PO_4, 137 mM NaCl, 10 mM Na_2HPO_4, pH 7.2-7.5@25℃。
- Without calcium, magnesium, phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature
Shipping conditions: Room temperature
Shelf life: 24 months from date of manufacture

Servicebio® HBSS, no calcium, no magnesium, no phenol red

Cat No. G4203

Product content

Name	Cat No.	Size
HBSS, no calcium, no magnesium, no phenol red	G4203-500ML	500 mL

Product description

HBSS (Hanks' Balanced Salt Solution) is used for a variety of cell culture applications, including washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. HBSS without calcium and magnesium is required for rinsing chelators from the culture before cell dissociation.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 µm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of DPBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of this HBSS is as follows:

- With Glucose, pH 6.7-7.8@25℃
- Without calcium, magnesium, phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® HBSS, calcium, no magnesium, no phenol red

Cat No. G4203

Product content

Name	Cat No.	Size
HBSS, calcium, magnesium, no phenol red	G4204-500ML	500 mL

Product description

HBSS (Hanks' Balanced Salt Solution) is used for a variety of cell culture applications, including washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. HBSS with calcium and magnesium is generally used as transport media or for reagent preparation.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 µm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of DPBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of this HBSS is as follows:

- With Glucose, calcium, magnesium, pH 6.7-7.8@25℃
- Without phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® HBSS, no calcium, no magnesium

Cat No. G4205

Product content

Name	Cat No.	Size
HBSS, no calcium, no magnesium	G4205-500ML	500 mL

Product description

HBSS (Hanks' Balanced Salt Solution) is used for a variety of cell culture applications, including washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. HBSS without calcium and magnesium is required for rinsing chelators from the culture before cell dissociation.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 µm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of DPBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of this HBSS is as follows:

- With Glucose, phenol red, pH 6.7-7.8@25℃
- Without calcium, magnesium.

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® HBSS, calcium, no magnesium

Cat No. G4206

Product content

Name	Cat No.	Size
HBSS, calcium, magnesium	G4206-500ML	500 mL

Product description

HBSS (Hanks' Balanced Salt Solution) is used for a variety of cell culture applications, including washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. HBSS with calcium and magnesium is generally used as transport media or for reagent preparation.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 µm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of DPBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of this HBSS is as follows:

- With Glucose, calcium, magnesium, phenol red, pH 6.7-7.8@25℃

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® PBS (phosphate buffered saline), 10×

Cat No. G4207

Product content

Name	Cat No.	Size
PBS (phosphate buffered saline), 10×	G4207-500ML	500 mL

Product description

PBS (phosphate buffered saline) is a balanced salt solution used in cell culture manufacturing and upstream process development. PBS acts as a buffer to help maintain pH in cell culture media. PBS is well suited for washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. PBS is formulated without calcium and magnesium. This product is 10 folds concentrated forms and require dilution before use.

Servicebio balanced salt solutions are manufactured at a cGMP-compliant facility using water for injection, filtered through final 0.1 µm sterile filtration and aseptic filled in a Hundred-stage FFU. The filter integrity tests are performed before and after filtration. Each lot of PBS solutions are subjected to sterility test, pH, osmolality and endotoxin.

The major character of PBS is as follows:

- 27 mM KCl, 20 mM KH_2PO_4, 1370 mM NaCl, 100 mM Na_2HPO_4, pH 7.0-7.5@25℃ after diluted to 1× PBS.
- Without calcium, magnesium, phenol red.

The complete formulation is available.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 24 months from date of manufacture

Servicebio® EBSS, no Calcium, no Magnesium, no Phenol Red

Cat #: G4213-500ML

Product Information

Product Name	Cat. No.	Spec.
EBSS, no Calcium, no Magnesium, no Phenol Red	G4213-500ML	500 mL

Product Description/Introduction

EBSS buffer, Earle's Balanced salt Solution, is one of the phosphate buffers commonly used in cell isolation or culture. The main components are glucose, $NaHCO_3$, NaCl, KCl and Na_2HPO_4, It is used for maintaining osmotic pressure, keeping pH stable and providing simple nutrition. It can be used for rinsing tissue blocks, organs or cells in in vitro experiments, transporting cells or tissues, preparing reagents for cell culture and as a dilution solution for cell counting. Calcium, magnesium ions and phenol red indicator can be added as required.

This product is sterilized by 0.1 μm filtration, pH 7.0-8.1@25℃, osmotic pressure 270-310 mOsm/kg, contains no calcium, magnesium ions and phenol red indicator. For the specific content of each ingredient, please check the formulation table on the website.

Storage and Shipping Conditions

Ship at room temperature; Store at room temperature, valid for 24 months.

Note

1. The product is sterilized by 0.1 μm filtration and can be used directly.
2. Please pay attention to aseptic operation to avoid contamination.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

EBSS, no Calcium, no Magnesium, no Phenol Red

Components	G4213-500ML		G4214-500ML		G4215-500ML		G4216-500ML	
	mg/L	mM	mg/L	mM	mg/L	mM	mg/L	mM
$CaCl_2$ (Anhydrous)	–	–	200	1.80	200	1.80		
$MgSO_4 \cdot 7H_2O$	–	–	200	0.81	200	0.81		
KCl	400	5.36	400	5.36	400	5.36	400	5.36
NaCl	6800	117	6800	117	6800	117	6800	117
Anhydrous NaH_2PO_4	121.7	1.01	121.7	1.01	121.7	1.01	121.7	1.01
$NaHCO_3$	2200	26.2	2200	26.2	2200	26.2	2200	26.2
D-glucose	1000	5.55	1000	5.55	1000	5.55	1000	5.55
Phenol Red	–	–	10	0.025			10	0.025

Servicebio® EBSS, Calcium, Magnesium, Phenol Red

Cat #: G4214-500ML

Product Information

Product Name	Cat. No.	Spec.
EBSS, Calcium, Magnesium, Phenol Red	G4214-500ML	500 mL

Product Description/Introduction

EBSS buffer, Earle's Balanced salt Solution, is one of the phosphate buffers commonly used in cell isolation or culture. The main components are glucose, $NaHCO_3$, NaCl, KCl and Na_2HPO_4, It is used for maintaining osmotic pressure, keeping pH stable and providing simple nutrition. It can be used for rinsing tissue blocks, organs or cells in in vitro experiments, transporting cells or tissues, preparing reagents for cell culture and as a dilution solution for cell counting. Calcium, magnesium ions and phenol red indicator can be added as required.

This product is sterilized by 0.1μm filtration, pH 7.0-7.5@25℃, osmotic pressure 270-310 mOsm/kg, contains calcium, magnesium ions, phenol red indicator. For the specific content of each ingredient, please check the formulation table on the website.

Storage and Shipping Conditions

Ship at room temperature; Store at room temperature, valid for 24 months.

Note

1. The product is sterilized by 0.1μm filtration and can be used directly.
2. Please pay attention to aseptic operation to avoid contamination.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

EBSS, Calcium, Magnesium, Phenol Red Formula

Components	G4213-500ML		G4214-500ML		G4215-500ML		G4216-500ML	
	mg/L	mM	mg/L	mM	mg/L	mM	mg/L	mM
$CaCl_2$ (Anhydrous)	–	–	200	1.80	200	1.80		
$MgSO_4 \cdot 7H_2O$	–	–	200	0.81	200	0.81		
KCl	400	5.36	400	5.36	400	5.36	400	5.36
NaCl	6800	117	6800	117	6800	117	6800	117
Anhydrous NaH_2PO_4	121.7	1.01	121.7	1.01	121.7	1.01	121.7	1.01
$NaHCO_3$	2200	26.2	2200	26.2	2200	26.2	2200	26.2
D-glucose	1000	5.55	1000	5.55	1000	5.55	1000	5.55
Phenol Red	–	–	10	0.025			10	0.025

Servicebio® EBSS, Calcium, Magnesium, no Phenol Red

Cat #: G4215-500ML

Product Information

Product Name	Cat. No.	Spec.
EBSS, Calcium, Magnesium, no Phenol Red	G4215-500ML	500 mL

Product Description/Introduction

EBSS buffer, Earle's Balanced salt Solution, is one of the phosphate buffers commonly used in cell isolation or culture. The main components are glucose, $NaHCO_3$, NaCl, KCl and Na_2HPO_4, It is used for maintaining osmotic pressure, keeping pH stable and providing simple nutrition. It can be used for rinsing tissue blocks, organs or cells in in vitro experiments, transporting cells or tissues, preparing reagents for cell culture and as a dilution solution for cell counting. Calcium, magnesium ions and phenol red indicator can be added as required.

The product is sterilized by 0.1μm filtration, pH 7.0-7.5@25℃, osmotic pressure 270-310 mOsm/kg, contains calcium and magnesium ions, no phenol red indicator. For the specific content of each ingredient, please check the formulation table on the website.

Storage and Shipping Conditions

Ship at room temperature; Store at room temperature, valid for 24 months.

Note

1. The product is sterilized by 0.1μm filtration and can be used directly.
2. Please pay attention to aseptic operation to avoid contamination.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

EBSS, Calcium, Magnesium, no Phenol Red Formula

Components	G4213-500ML		G4214-500ML		G4215-500ML		G4216-500ML	
	mg/L	mM	mg/L	mM	mg/L	mM	mg/L	mM
$CaCl_2$ (Anhydrous)	–	–	200	1.80	200	1.80		
$MgSO_4 \cdot 7H_2O$	–	–	200	0.81	200	0.81		
KCl	400	5.36	400	5.36	400	5.36	400	5.36
NaCl	6800	117	6800	117	6800	117	6800	117
Anhydrous NaH_2PO_4	121.7	1.01	121.7	1.01	121.7	1.01	121.7	1.01
$NaHCO_3$	2200	26.2	2200	26.2	2200	26.2	2200	26.2
D-glucose	1000	5.55	1000	5.55	1000	5.55	1000	5.55
Phenol Red	–	–	10	0.025			10	0.025

Servicebio® EBSS, no Calcium, no Magnesium, Phenol Red

Cat #: G4216-500ML

Product Information

Product Name	Cat. No.	Spec.
EBSS, no Calcium, no Magnesium, Phenol Red	G4216-500ML	500 mL

Product Description/Introduction

EBSS buffer, Earle's Balanced salt Solution, is one of the phosphate buffers commonly used in cell isolation or culture. The main components are glucose, $NaHCO_3$, NaCl, KCl and Na_2HPO_4, It is used for maintaining osmotic pressure, keeping pH stable and providing simple nutrition. It can be used for rinsing tissue blocks, organs or cells in in vitro experiments, transporting cells or tissues, preparing reagents for cell culture and as a dilution solution for cell counting. Calcium, magnesium ions and phenol red indicator can be added as required.

This product is sterilized by 0.1μm filtration, pH 7.0-8.1@25℃, osmotic pressure 270-310 mOsm/kg, no calcium, magnesium ions, phenol red indicator. For the specific content of each ingredient, please check the formulation table on the website.

Storage and Shipping Conditions

Ship at room temperature; Store at room temperature, valid for 24 months.

Note

1. The product is sterilized by 0.1μm filtration and can be used directly.
2. Please pay attention to aseptic operation to avoid contamination.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

EBSS, no Calcium, no Magnesium, Phenol Red Formula

Components	G4213-500ML		G4214-500ML		G4215-500ML		G4216-500ML	
	mg/L	mM	mg/L	mM	mg/L	mM	mg/L	mM
$CaCl_2$ (Anhydrous)	–	–	200	1.80	200	1.80		
$MgSO_4 \cdot 7H_2O$	–	–	200	0.81	200	0.81		
KCl	400	5.36	400	5.36	400	5.36	400	5.36
NaCl	6800	117	6800	117	6800	117	6800	117
Anhydrous NaH_2PO_4	121.7	1.01	121.7	1.01	121.7	1.01	121.7	1.01
$NaHCO_3$	2200	26.2	2200	26.2	2200	26.2	2200	26.2
D-glucose	1000	5.55	1000	5.55	1000	5.55	1000	5.55
Phenol Red	–	–	10	0.025			10	0.025

Servicebio® Saline Solution (0.9% NaCl, sterile)

Cat No. G4702

Product content

Name	Cat No.	Size
Saline Solution (0.9% NaCl, sterile)	G4702-500ML	500 mL

Product description

This Saline Solution (0.9% NaCl, sterile) is NaCl Solution of 0.9% concentration, abbreviated as SPSS, namely stroke-Physiological Saline Solution. Due to its osmotic pressure and human plasma osmotic pressure is equal to the common in vitro culture of living tissue, cell salt solution. Prepare necessary reagents for drug and animal perfusion.

The product is prepared with pyrogen-free distilled water and filtered by 0.1 μm for sterilization.

Storage

Storage conditions: Room temperature

Shipping conditions: Room temperature

Shelf life: 36 months from date of manufacture

Note

1. this product has passed 0.1 μ M filter membrane can be used directly to remove bacteria. Please pay attention to aseptic operation during use to avoid pollution.
2. please wear test clothes and disposable gloves during operation.

Servicebio® Red Blood Cell Lysis Buffer

Cat #: G2015-500ML

Product Information

Product Name	Cat. No.	Spec.
Red Blood Cell Lysis Buffer	G2015-500ML	500 mL

Product Description/Introduction

Red Blood Cell Lysis Buffer (ACK Lysis Buffer) is a classic lysis solution designed to remove red blood cells without damaging nucleated cells. The erythrocyte lysate lyses tissue cells that do not contain erythrocytes and can be further used for primary culture, cell fusion, flow cytometric analysis, separation and extraction of nucleic acids and proteins. The basic principle is to lyse erythrocytes by using the difference in intracellular osmolarity to cause the cell membrane to swell. The main components include ammonium chloride, potassium bicarbonate and EDTA-Na2. Ammonium ions cannot pass through the cell membrane, while other ions can, resulting in the difference in ion concentration between the inside and outside of the cell, and the diffusion of external water into the cell, causing the red blood cells to swell and achieve the lysis effect. The product is filtered and sterilized by 0.2 μm filter membrane.

Storage and Shipping Conditions

Ship with wet ice; Store at 2-8℃, valid for 12 months.

Product Components

Component	G2015-500ML
Red Blood Cell Lysis Buffer	500 mL
Manual	1 pc

Product protocol/procrdures

Tissue/cell samples:

1. Fresh tissue is digested by trypsin or collagenase and dispersed into individual cell suspension. Centrifuge at 300-400 g for 5 min at 4°C and discard the supernatant.
2. Add red blood cell lysis buffer to the cell precipitation at a ratio of 1:3-5, mix with gently blowing and lyse for 1-2 min.
3. Centrifuge at 800-1000 rpm for 5-8 min at 4°C, then discard the red supernatant. Repeat steps 2 and 3 if lysis is incomplete.
4. The cells were resuspended by adding 3-5 mL of Hank's solution or serum-free culture medium to the precipitated fraction, and then centrifuged at 300-400 g for 3-5 min at 4°C. This step was repeated 2-3 times to wash the cells.
5. Resuspended cells with appropriate solution as required for subsequent experiments; For RNA extraction, it is preferable to use the solution prepared with DEPC water at the beginning of step 4.

Blood samples:

1. Fresh anticoagulant blood, discard the supernatant after centrifugation.
2. Pre-estimate the volume of cell precipitation and add 2-8°C pre-cooled red blood cell lysis buffer into

the cell precipitation at a ratio of 1:6-10. For example, for 0.2 mL of cell precipitation, add 1.2-2.0 mL of red blood cell lysis buffer, gently blow to mix, and lysed for 1-5 min at 4°C or room temperature.

3. Centrifuge at 800-1000 rpm for 5-8 min at 4°C, then discard the red supernatant. If erythrocyte lysis is incomplete, repeat steps 2 and 3 once;
4. The cells were resuspended by adding Hank's solution or serum-free culture medium to the precipitated fraction, and then centrifuged at 300-400 g for 3-5 min at 4°C. This step was repeated 2-3 times to wash the cells;
5. Resuspended cells with appropriate solution as required for subsequent experiments; For RNA extraction, it is preferable to use the solution prepared with DEPC water at the beginning of step 4.

Note

1. This product has been filtered and sterilized. Attention should be paid to aseptic operation to avoid contamination.
2. If the follow-up test is used for cell culture, the operation should be completed in an ultra-clean bench with attention to aseptic operation to avoid contamination of the cells and affecting the cell culture.
3. After centrifugal washing, if a very small amount of erythrocytes are found, the test can be continued without affecting the subsequent detection.
4. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® Lymphocyte Separation Medium (Human)

Cat #: G2097-100ML

Product Information

Product Name	Cat. No.	Spec.
Lymphocyte Separation Medium (Human)	G2097-100ML	100 mL

Product Description/Introduction

This product is a gradient density separation solution suitable for the separation of human peripheral blood lymphocytes and most mammalian mononuclear cells. Its principle is mainly based on the density difference between different cells in peripheral blood (the density of red blood cells and granulocytes is about 1.090 g/ml; platelets is 1.030-1.035 g/ml; lymphocytes and monocytes are 1.075-1.090 g/ml), lymphocytes are isolated from peripheral blood by gradient density centrifugation. This product is a sterile, low endotoxin level ready to use separation solution with a density of 1.077 ± 0.001 g/mL (20℃). This product is optimized on the basis of traditional Ficoll meglumine diatrizoate to maintain the stability of the separation solution for a longer time after the blood sample is added, making it easy to use and providing a high purity and condition of the isolated lymphocytes.

Storage and Shipping Conditions

Ship with wet ice; store at 2-8℃, protect from light; valid for 12 months.

Product Components

Component	G2097-100ML
Lymphocyte Separation Medium (Human)	100 mL
Manual	1 pc

Product Protocol/Procedures

For the separation of 1 mL of lymphocytes from human peripheral blood, the volume ratio of blood to lymphocyte separation medium is 1:1-1:2, with appropriate adjustments within this range; care should be taken when selecting the centrifuge tube that the total volume of blood and lymphocyte separation medium does not exceed two-thirds of the volume of the tube.

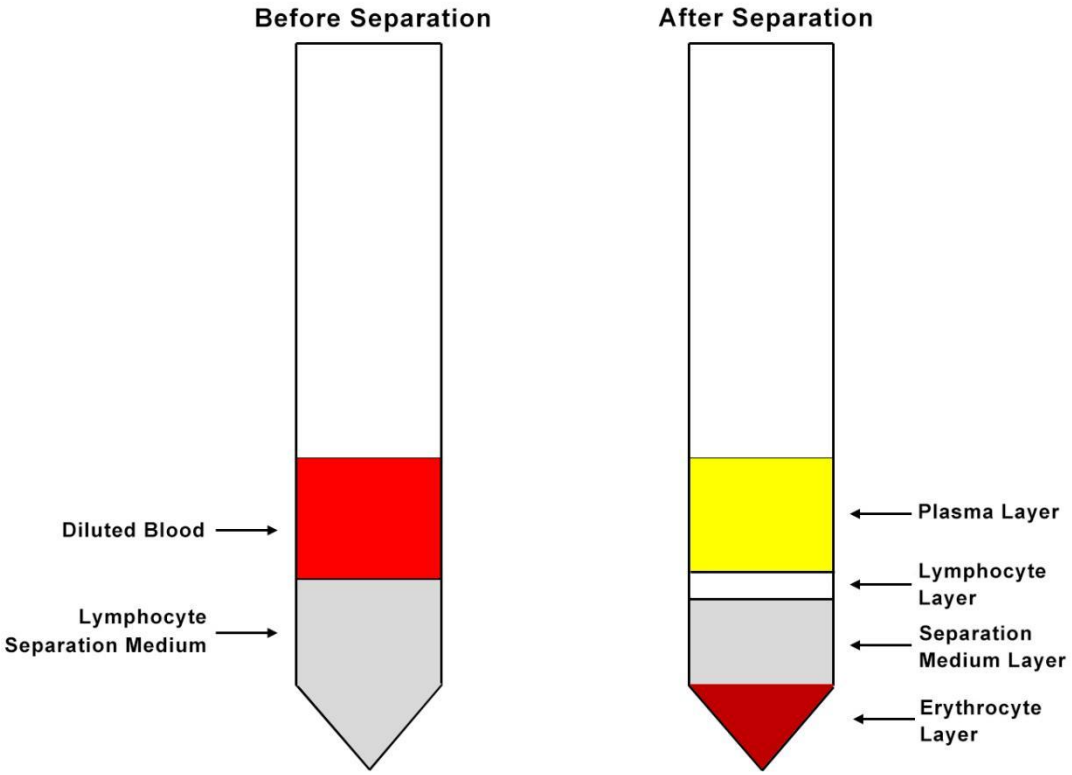
1. Take 1 mL of fresh anticoagulant whole blood (heparin, EDTA, sodium citrate and other anticoagulants can be used), dilute with an equal volume of PBS (G4202 recommended) or Hanks buffer (recommended g4203) contains no calcium and magnesium to obtain 2 mL of diluted whole blood.
2. Pipette 3 mL of human peripheral blood lymphocyte separation solution to 15 mL sterile centrifuge tube (EP-1500-J is recommended).
3. Tilt the centrifuge tube at 45° and slowly add 2 mL of diluted blood along the tube wall into the centrifuge tube, so that the blood is lies flat on the upper layer of human peripheral blood lymphocyte separation medium.
4. It is recommended to use a horizontal head centrifuge, place the tube in the horizontal head adapter, reduce the speed of the centrifuge (3-5 speeds are appropriate) and centrifuge at 800 x g for 25 min at room temperature.

5. After centrifugation, the tube is gently held on a tube rack and a clear stratification is observed: the uppermost layer is the plasma layer; the upper middle layer is the lymphocyte layer; the lower middle layer is the lymphocyte separation medium layer; and the lowermost layer is the erythrocyte and granulocyte layer (refer to the attached figure).
6. Remove the uppermost plasma layer and carefully aspirate the tunica albuginea layer (lymphocyte layer) into a new sterile centrifuge tube.
7. Wash with 8 mL of PBS (recommended G4202) or other buffer, centrifuge at 100 x g for 10 min, then discard the supernatant.
8. Repeat step 7 (optional).
9. Resuspension of lymphocytes in the required medium or buffer according to the purpose of the experiment.

Note

1. The product must be fully equilibrated and mixed upside down at room temperature before use. The proper temperature for separation is 18-25℃.
2. To maintain the activity of lymphocytes, it is best to select fresh anticoagulation blood within 2 hours of blood collection; If further culture and test of the isolated lymphocytes is required, please pay attention to the aseptic operation during blood collection and separation.
3. Diluting or washing the buffer, do not use the buffer contains calcium and magnesium ions to avoid blood cell aggregation.
4. Excessive absorption of components outside the tunica albuginea layer of lymphocytes will cause some granulocytes or platelets at the junction to be mixed.
5. Differences between blood samples may have an impact on the separation results. The centrifugal force and time can be adjusted appropriately according to the actual situation. The reference centrifugal force and time range are 500-1000 x g and 20-30 min.
6. It is normal for red blood cells to settle after mixing blood and lymphocyte separation medium for a certain time.
7. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Attachment: Schematic diagram of each layer before and after separation



For Research Use Only!

Servicebio® Lymphocyte Separation Medium (Rat, Mouse)

Cat #: G2098-100ML

Product Information

Product Name	Cat. No.	Spec.
Lymphocyte Separation Medium (Rat, Mouse)	G2098-100ML	100 mL

Product Description/Introduction

This product is a gradient density separation solution suitable for the separation of peripheral blood lymphocytes of rats and mice. Its principle is mainly based on the density difference between different peripheral blood cells (the density of red blood cells and granulocytes is about 1.090 g/mL; Platelet is 1.030-1.035 g/mL; Lymphocyte and monocyte are 1.075-1.090 g/mL) and are separated from peripheral blood by gradient density centrifugation. This product is sterile, low endotoxin level ready-to-use separation solution with a density of 1.083 ± 0.001 g/mL (20℃). The density of rodent lymphocytes is slightly higher than that of human lymphocytes, and the isolation of peripheral blood from mice is prone to haemolysis. Based on these characteristics, the product is optimized on the basis of traditional Ficoll-meglumine to maintain the stability of the separation solution for a longer time after blood addition, and the operation is simple and the isolated lymphocytes are of high purity and good condition.

Storage and Shipping Conditions

Ship with wet ice; Store in the dark at 2-8℃, valid for 12 months.

Product Components

Component	G2098-100ML
Lymphocyte Separation Medium (Rat, Mouse)	100 mL
Manual	1 pc

Product protocol/Procedures

For the separation of 1 mL of lymphocytes from mouse peripheral blood, the volume ratio of blood to lymphocyte separation medium is 1:1-1:2, with appropriate adjustments within this range; Care should be taken when selecting the centrifuge tube that the total volume of blood and lymphocyte separation medium does not exceed two-thirds of the volume of the tube.

1. Take 1 mL of fresh anticoagulant whole blood (heparin, EDTA, sodium citrate and other anticoagulants can be used), dilute with an equal volume of PBS (G4202 recommended) or Hanks buffer (recommended g4203) contains no calcium and magnesium to obtain 2 mL of diluted whole blood.
2. Pipette 3 mL of peripheral blood lymphocyte isolation solution from rats and mice into a 15 mL sterile centrifuge tube (EP-1500-J is recommended).
3. Tilt the centrifuge tube at 45° and slowly add 2 mL of diluted blood along the tube wall into the centrifuge tube, so that the blood is lies flat on the upper layer of the peripheral blood lymphocyte separation medium of rats and mice.
4. It is recommended to use a horizontal head centrifuge, place the tube in the horizontal head adapter, reduce the speed of the centrifuge (3-5 speeds are appropriate) and centrifuge at 800 x g for 25 min

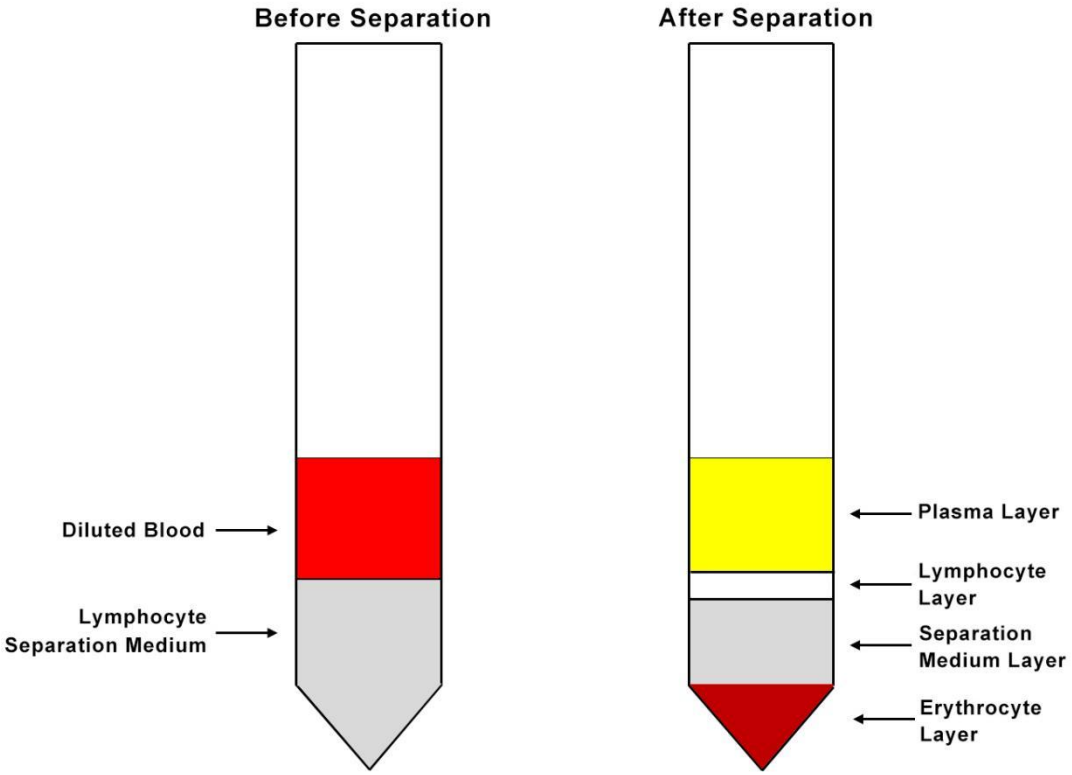
at room temperature.

5. After centrifugation, the tube is gently held on a tube rack and a clear stratification is observed: the uppermost layer is the plasma layer; the upper middle layer is the lymphocyte layer; the lower middle layer is the lymphocyte separation medium; and the lowermost layer is the erythrocyte and granulocyte layer (refer to the attached figure).
6. Remove the uppermost plasma layer and carefully aspirate the tunica albuginea layer (lymphocyte layer) into a new sterile centrifuge tube.
7. Wash with 8 mL of PBS (recommended G4202) or other buffer, centrifuge at 100 x g for 10 min, then discard the supernatant.
8. Repeat Step 7 (Optional).
9. Resuspension of lymphocytes in the required medium or buffer according to the purpose of the experiment.

Note

1. The product must be fully equilibrated and mixed upside down at room temperature before use. The proper temperature for separation is 18-25℃.
2. To maintain the activity of lymphocytes, it is best to select fresh anticoagulation blood within 2 hours of blood collection; If further culture and test of the isolated lymphocytes is required, please pay attention to the aseptic operation during blood collection and separation.
3. Diluting or washing the buffer, do not use the buffer contains calcium and magnesium ions to avoid blood cell aggregation.
4. Excessive absorption of components outside the tunica albuginea layer of lymphocytes will cause some granulocytes or platelets at the junction to be mixed.
5. Differences between blood samples may have an impact on the separation results. The centrifugal force and time can be adjusted appropriately according to the actual situation. The reference centrifugal force and time range are 500-1000 g and 20-30 min.
6. It is normal for red blood cells to settle after mixing blood and lymphocyte separation medium for a certain time.
7. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Attachment: Schematic diagram of each layer before and after separation



For Research Use Only!

Servicebio® Lymphocyte Separation Medium (Rabbit)

Cat #: G2099-100ML

Product Information

Product Name	Cat. No.	Spec.
Lymphocyte Separation Medium (Rabbit)	G2099-100ML	100 mL

Product Description/Introduction

This product is a gradient density separation solution suitable for the separation of rabbit peripheral blood lymphocytes. Its principle is mainly based on the density difference between different peripheral blood cells (the density of red blood cells and granulocytes is about 1.090 g/mL; Platelet is 1.030-1.035 g/mL; Lymphocyte and monocyte are 1.075-1.090 g/mL) and are separated from peripheral blood by gradient density centrifugation. This product is sterile, low endotoxin level ready-to-use separation solution with a density of 1.083 ± 0.001 g/mL (20℃). The product is optimized on the basis of traditional Ficoll-meglumine to maintain the stability of the separation solution for a longer time after blood addition, the operation is simple and the isolated lymphocytes are of high purity and good condition.

Storage and Shipping Conditions

Ship with wet ice; Store 2-8℃ away from light, valid for 12 months.

Product Components

Component	G2099-100ML
Lymphocyte Separation Medium (Rabbit)	100 mL
Manual	1 pc

Product Protocol/Procedures

For the separation of 1 mL of rabbit peripheral blood lymphocytes, the volume ratio of blood to lymphocyte separation medium is 1:1-1:2, with appropriate adjustments within this range; Care should be taken when selecting the centrifuge tube that the total volume of blood and lymphocyte separation medium does not exceed two-thirds of the volume of the tube.

1. Take 1 mL of fresh anticoagulant whole blood (heparin, EDTA, sodium citrate and other anticoagulants can be used), dilute with an equal volume of PBS (G4202 recommended) or Hanks buffer (recommended g4203) contains no calcium and magnesium to obtain 2 mL of diluted whole blood.
2. Pipette 3 mL of peripheral blood lymphocyte isolation solution from rats and mice into a 15 mL sterile centrifuge tube (EP-1500-J is recommended).
3. Tilt the centrifuge tube at 45° and slowly add 2 mL of diluted blood along the tube wall into the centrifuge tube, so that the blood is lies flat on the upper layer of the peripheral blood lymphocyte separation medium of rabbit.
4. It is recommended to use a horizontal head centrifuge, place the tube in the horizontal head adapter, reduce the speed of the centrifuge (3-5 speeds are appropriate) and centrifuge at 800 x g for 25 min at room temperature.
5. After centrifugation, the tube is gently held on a tube rack and a clear stratification is observed: the

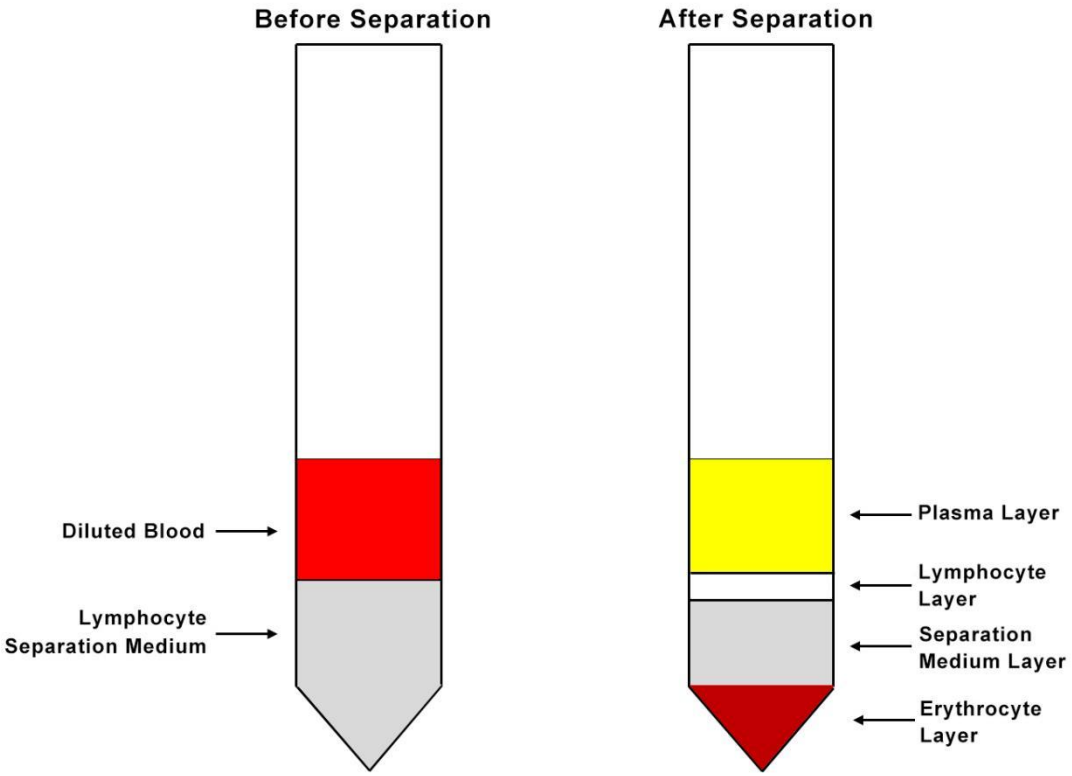
uppermost layer is the plasma layer; the upper middle layer is the lymphocyte layer; the lower middle layer is the lymphocyte separation medium layer; and the lowermost layer is the erythrocyte and granulocyte layer (refer to the attached figure).

6. Remove the uppermost plasma layer and carefully aspirate the tunica albuginea layer (lymphocyte layer) into a new sterile centrifuge tube.
7. Wash with 8 mL of PBS (recommended G4202) or other buffer, centrifuge at 100 x g for 10 min, then discard the supernatant
8. Repeat Step 7 (Optional);
9. Resuspension of lymphocytes in the required medium or buffer according to the purpose of the experiment.
10. The purity of the lymphocytes can be further improved by planting the resuspended lymphocytes into a culture dish or flask, incubating in the incubator for 1-2 h, and then transferring the absorbed cells to a new culture dish or flask (optional).

Note

1. The product must be fully equilibrated and mixed upside down at room temperature before use. The proper temperature for separation is 18-25℃.
2. To maintain the activity of lymphocytes, it is best to select fresh anticoagulation blood within 2 hours of blood collection; If further culture and test of the isolated lymphocytes is required, please pay attention to the aseptic operation during blood collection and separation.
3. Diluting or washing the buffer, do not use the buffer contains calcium and magnesium ions to avoid blood cell aggregation
4. Excessive absorption of components outside the tunica albuginea layer of lymphocytes will cause some granulocytes or platelets at the junction to be mixed.
5. Differences between blood samples may have an impact on the separation results. The centrifugal force and time can be adjusted appropriately according to the actual situation. The reference centrifugal force and time range are 500-1000 g and 20-30 min.
6. It is normal for red blood cells to settle after mixing blood and lymphocyte separation medium for a certain time.
7. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Attachment: Schematic diagram of each layer before and after separation


Before Separation
After Separation
Diluted Blood
Lymphocyte
Separation Medium
Plasma Layer
Lymphocyte
Layer
Separation
Medium Layer
Erythrocyte
Layer

Servicebio® Recombinant Trypsin（Powder）

Cat. #: G3440

Product Information

Product Name	Cat. No.	Spec.
Recombinant Trypsin（Powder）	G3440-10MG	10 mg
	GG3440-100MG	100 mg

Product Description

Trypsin is a serine protease that specifically cleaves lysine and arginine C-terminal peptide bonds in proteins. When the amino acid following lysine and arginine is proline, the cleavage activity of trypsin decreases.

Recombinant Trypsin (Powder) of this product was expressed and purified in Pichia pastoris using trypsin gene from pig. It did not contain endogenous nuclease and other protease activities. The molecular weight was about 25 kDa, and its purity was single main band detected by SDS-PAGE. Its effective temperature is 20-60°C, the optimum temperature is 35°C ; the effective pH range is 7-10, and the optimum pH is 8.5. It can replace the natural extraction of trypsin used in various biotechnology processes, such as : recombinant insulin production, cell culture, cell fermentation, protein enzymolysis, recombinant trypsin in addition to enzyme activity than the natural extraction of trypsin, the purity is also higher, and no other protease activity.

Enzyme activity unit and enzyme activity: The reaction conditions are 25°C, pH 8.0, and the reaction system is 3.2 mL. An enzyme activity unit U was defined as an increase of 0.003 in the absorbance of the reaction system at 253 nm by enzymatic hydrolysis of BAEE per minute. Enzyme activity ≥3800 U/mg (BAEE method).

Inhibitors: Its activity is inhibited by serine protease inhibitors (such as PMSF), and heavy metal ions can also inhibit its enzyme activity.

Storage and Shipping Conditions

Ship with wet ice; Store at -20°C for 24 months.

Product Component

Component	G3440-10MG	G3440-100MG
Recombinant Trypsin（Powder）	10 mg	100 mg
specification	1	1

Assay Protocol/Procedures

Redissolution of Recombinant Trypsin lyophilized powder: Weigh appropriate amount of recombinant

trypsin lyophilized powder and use it after completely dissolving in enzym-free water or other buffer solution. Recombinant Trypsin. After resolution, the product will slowly degrade after being placed at room temperature for several hours. It is recommended to store at -20℃.

Note

1. The redissolved trypsin will slowly degrade at room temperature. It is recommended to subpackage and store at -20°C.
2. For your safety and health, please wear a lab coat and disposable gloves.

Servicebio® Recombinant Trypsin（Powder）

Cat. #: G3440

Product Information

Product Name	Cat. No.	Spec.
Recombinant Trypsin（Powder）	G3440-10MG	10 mg
	GG3440-100MG	100 mg

Product Description

Trypsin is a serine protease that specifically cleaves lysine and arginine C-terminal peptide bonds in proteins. When the amino acid following lysine and arginine is proline, the cleavage activity of trypsin decreases.

Recombinant Trypsin (Powder) of this product was expressed and purified in Pichia pastoris using trypsin gene from pig. It did not contain endogenous nuclease and other protease activities. The molecular weight was about 25 kDa, and its purity was single main band detected by SDS-PAGE. Its effective temperature is 20-60°C, the optimum temperature is 35°C ; the effective pH range is 7-10, and the optimum pH is 8.5. It can replace the natural extraction of trypsin used in various biotechnology processes, such as : recombinant insulin production, cell culture, cell fermentation, protein enzymolysis, recombinant trypsin in addition to enzyme activity than the natural extraction of trypsin, the purity is also higher, and no other protease activity.

Enzyme activity unit and enzyme activity: The reaction conditions are 25°C, pH 8.0, and the reaction system is 3.2 mL. An enzyme activity unit U was defined as an increase of 0.003 in the absorbance of the reaction system at 253 nm by enzymatic hydrolysis of BAEE per minute. Enzyme activity ≥3800 U/mg (BAEE method).

Inhibitors: Its activity is inhibited by serine protease inhibitors (such as PMSF), and heavy metal ions can also inhibit its enzyme activity.

Storage and Shipping Conditions

Ship with wet ice; Store at -20°C for 24 months.

Product Component

Component	G3440-10MG	G3440-100MG
Recombinant Trypsin（Powder）	10 mg	100 mg
specification	1	1

Assay Protocol/Procedures

Redissolution of Recombinant Trypsin lyophilized powder: Weigh appropriate amount of recombinant

trypsin lyophilized powder and use it after completely dissolving in enzym-free water or other buffer solution. Recombinant Trypsin. After resolution, the product will slowly degrade after being placed at room temperature for several hours. It is recommended to store at -20℃.

Note

1. The redissolved trypsin will slowly degrade at room temperature. It is recommended to subpackage and store at -20°C.
2. For your safety and health, please wear a lab coat and disposable gloves.

Servicebio® 0.25% Trypsin-EDTA （Soluble in PBS,Phenol Red）

Cat #: G4001-100ML

Product Information

Product Name	Cat. No.	Spec.
0.25% Trypsin-EDTA （Soluble in PBS,Phenol Red）	G4001-100ML	100 mL

Product Description/Introduction

Trypsin is a serine hydrolase that cuts off the carboxyl ends of lysine and arginine residues in polypeptide chains. Trypsin digestion are used in tissue cell extraction, culture, and in vitro cell culture to hydrolyse intercellular proteins and to dissociate tissues or cells into individual cells. Trypsin is most effectively digested at 37°C , pH 8.0. The common working concentration of trypsin is 0.25%. EDTA can chelate calcium and magnesium ions and the use of EDTA in trypsin solutions can accelerate the hydrolysis of intercellular linkages and enhance digestion. Phenol Red is a pH indicator that is purplish-red when the solution is alkaline, orange when it is acidic and pink when it is nearly neutral.

This product is 0.25% trypsin digestion solution, contains 0.25% trypsin dissolved in Hank's buffer with 0.9 mM EDTA, with phenol red indicator, filtered by 0.1 μm to remove bacteria.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months. Avoid freezing and thawing repeatedly.

Product Protocol/Procedures

Adherent cells

1. Aspirate the cell culture medium and wash the cells with sterile PBS, Hanks solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down with the pipettor. aspirate the trypsin cell digestion solution, add the cell culture medium containing serum and gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipettor, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1. Due to the different properties of tissues or cells, the experimenter should determine the optimal digestion time according to the specific situation; The digestion time should not be too long, otherwise the cell adhesion and growth will be affected.
2. This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.
3. This product should not be stored at 4℃ for a long time, avoid repeated freezing and thawing. It is

suggested to divide into small portions and store at -20℃.

4. For the selection of EDTA and phenol red in trypsin, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA. If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin concentration. For apoptosis detection by flow cytometry, trypsin digestion solution without EDTA should be used.
5. Due to the low content of $NaHCO_3$ in Hank's solution, it is not recommended to use this product for digestion in a CO_2 incubator at 37℃. If put in a CO_2 incubator, the solution will quickly become acidic.
6. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® Trypsin (0.25%)

Cat #: G4002-100ML

Product Information

Product Name	Cat. No.	Spec.
Trypsin (0.25%)	G4002-100ML	100 mL

Product Description/Introduction

Trypsin is a serine hydrolase that cuts off the carboxyl ends of lysine and arginine residues in polypeptide chains. Trypsin digestion are used in tissue cell extraction, culture, and in vitro cell culture to hydrolyse intercellular proteins and to dissociate tissues or cells into individual cells. Trypsin is most effectively digested at 37°C , pH 8.0. The common working concentration of trypsin is 0.25%.

This product is 0.25% trypsin digestion solution, contains 0.25% trypsin dissolved in Hank's buffer without EDTA and phenol red indicator, filtered by 0.1 μm to remove bacteria.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months. Avoid repeated freezing and thawing.

Product Protocol/Procedures

Adherent cells

1. Aspirate the cell culture medium and wash the cells with sterile PBS, Hanks solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down with the pipettor. aspirate the trypsin cell digestion solution, add the cell culture medium containing serum and gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipettor, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1. Due to the different properties of tissues or cells, the experimenter should determine the optimal digestion time according to the specific situation; The digestion time should not be too long, otherwise the cell adhesion and growth will be affected.
2. This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.
3. This product should not be stored at 4℃ for a long time to avoid repeated freezing and thawing. It is suggested to be divided into small portions and stored at -20℃.
4. For the selection of EDTA and phenol red in trypsin, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA. If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin

concentration. For apoptosis detection by flow cytometry, trypsin digestion solution without EDTA should be used.

5. Due to the low content of $NaHCO_3$ in Hank's solution, it is not recommended to use this product for digestion in a CO_2 incubator at 37℃. If put in a CO_2 incubator, the solution will quickly become acidic.
6. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® 0.25% Trypsin-EDTA (Soluble in PBS)

Cat #: G4004-100ML

Product Information

Product Name	Cat. No.	Spec.
0.25% Trypsin-EDTA (Soluble in PBS)	G4004-100ML	100 mL

Introduction

Trypsin is a serine hydrolase that cuts off the carboxyl ends of lysine and arginine residues in polypeptide chains. Trypsin digestion is used in tissue cell extraction, culture, and in vitro cell culture to hydrolyse intercellular proteins and to dissociate tissues or cells into individual cells. Trypsin is most effectively digested at 37°C , pH 8.0. The common working concentration of trypsin is 0.25%. EDTA can chelate calcium and magnesium ions and the use of EDTA in trypsin solutions can accelerate the hydrolysis of intercellular linkages and enhance digestion.

This product contains 0.25% trypsin with 0.9 mM EDTA, no phenol red indicator, solvent is PBS buffer, and is sterilized by 0.1 μm filtration.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months. Avoid repeated freezing and thawing.

Product Protocol/Procedures

Adherent cells

1. Aspirate the cell culture medium and wash the cells with sterile PBS, D-Hank's solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down with the pipette. Aspirate the trypsin cell digestion solution, add the cell culture medium containing serum and gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipette, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1. Due to the different properties of tissues or cells, the experimenter should determine the optimal digestion time according to the specific situation; The digestion time should not be too long, otherwise the cell adhesion and growth will be affected.
2. This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.
3. This product should not be stored at 4℃ for a long time, avoid repeated freezing and thawing. It is suggested to divide into small portions and store at -20℃.
4. For the selection of EDTA and phenol red in trypsin, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable

cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA. If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin concentration. For apoptosis detection by flow cytometry, trypsin digestion solution without EDTA should be used.

5. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® Trypsin (0.25%), Phenol Red

Cat #: G4005-100ML

Product Information

Product Name	Cat. No.	Spec.
Trypsin (0.25%), Phenol Red	G4005-100ML	100 mL

Product Description/Introduction

Trypsin is a serine hydrolase that cuts off the carboxyl ends of lysine and arginine residues in polypeptide chains. Trypsin digestion are used in tissue cell extraction, culture, and in vitro cell culture to hydrolyse intercellular proteins and to dissociate tissues or cells into individual cells. Trypsin is most effectively digested at 37°C , pH 8.0. The common working concentration of trypsin is 0.25%. Phenol Red is a pH indicator that is purplish-red when the solution is alkaline, orange when it is acidic and pink when it is nearly neutral.

This product is 0.25% trypsin digestion solution, contains 0.25% trypsin dissolved in Hank's buffer with phenol red indicator, without EDTA, filtered by 0.1 μm to remove bacteria.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months. Avoid repeated freezing and thawing.

Product Protocol/Procedures

Adherent cells

1. Aspirate the cell culture medium and wash the cells with sterile PBS, Hanks solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down with the pipettor. aspirate the trypsin cell digestion solution, add the cell culture medium containing serum and gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipettor, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1. Due to the different properties of tissues or cells, the experimenter should determine the optimal digestion time according to the specific situation; The digestion time should not be too long, otherwise the cell adhesion and growth will be affected.
2. This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.
3. This product should not be stored at 4℃ for a long time to avoid repeated freezing and thawing. It is suggested to be divided into small portions and stored at -20℃.
4. For the selection of EDTA and phenol red in trypsin, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA.

If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin concentration. For apoptosis detection by flow cytometry, trypsin digestion solution without EDTA should be used.

5. Due to the low content of $NaHCO_3$ in Hank's solution, it is not recommended to use this product for digestion in a CO_2 incubator at 37℃. If put in a CO_2 incubator, the solution will quickly become acidic.
6. For your safety and health, please wear safety glasses, gloves, or protective clothing.

0.25% Trypsin (Soluble in D-Hank's,Phenol Red,EDTA)

Online Consultation

Cat.No. : G4010-100ML

Brand : Servicebio

Spec.: 100 mL (Soluble in D-Hank's, Phenol Red, EDTA)

Product Introduction

Product Information

Product Name		
0.25% Trypsin (Soluble in D-Hank's,Phenol Red,EDTA)	G4010-100ML	100 mL

Introduction

Trypsin, abbreviated as trypsin, is a serine hydrolase that cuts off the carboxyl termini of lysine and arginine residues in polypeptide chains. In the process of tissue cell extraction, culture, and in vitro cell culture, trypsin digestion solution is use

d to hydrolyze intercellular proteins, so that the tissue or cell can be dispersed into a single cell. The digestion ability of trypsin was the strongest at 37℃ pH 8.0. The common working concentration of trypsin is 0.25%. EDTA can chelate calcium and magn

esium ions. The use of EDTA in trypsin solution can accelerate the hydrolysis of intercellular junction proteins and enhance digestion. Phenol red is a pH indicator. The solution is purplish-red when it is more basic, orange-red when it is more acidic, and pink when it is near neutral.

This product is a 0.25% trypsin digestion solution, containing 0.25% trypsin, dissolved in Hank's buffer, containing 0.9 mM EDTA, co

ntaining phenol red indicator, sterilized by 0.1 μm filtration.

Storage and Handling Conditions

Transport with dry ice; Store at -20℃, valid for 12 months. Avoid repeated freezing and thawing.

Usage

Adherent cells

1. Blot off the cell culture medium and wash the cells with sterile PBS, Hanks solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down by gently blowing the cells with a pipette gun. Then the trypsin cell digestion solution is removed by suction, and the cell culture medium containing serum is added to gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipette gun, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1.

Due to the different properties of tissues or cells, the experimenter should determine the best digestion time according to the specific situation; The time of digesting cells should not be too long, otherwise the cell adhesion and growth will be affected.

2.

This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.

3. This product should not be stored at 4℃ for a long time to avoid repeated freezing and thawing. It is suggested to be divided into small parts and stored at -20℃.

4.

For the selection of EDTA and phenol red in pancreatic enzymes, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA. If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin concentration. If it is necessary to detect apoptosis by flow cytometry, trypsin digestion solution without EDTA should be used.

5. For your safety and health, please wear a lab coat and disposable gloves when operating.

0.25% Trypsin (Soluble in D-Hank's, EDTA, no Phenol Red)

Online Consultation

Cat.No. : G4012-100ML

Brand : Servicebio

Spec.: 100 mL (Soluble in D-Hank's, EDTA, no Phenol Red,)

Product Introduction

Product Information

Product Name	Cat.No.	Spec.
0.25% Trypsin (Soluble in D-Hank's, EDTA,no Phenol Red)	G4012-100ML	100 mL

Introduction

Trypsin, abbreviated as trypsin, is a serine hydrolase that cuts off the carboxyl termini of lysine and arginine residues in polypeptide chains. In the process of tissue cell extraction, culture, and in vitro cell culture, trypsin digestion solution is use

d to hydrolyze intercellular proteins, so that the tissue or cell can be dispersed into a single cell. The digestion ability of trypsin was the strongest at 37℃ pH 8.0. The common working concentration of trypsin is 0.25%. EDTA can chelate calcium and magn

esium ions. The use of EDTA in trypsin solution can accelerate the hydrolysis of intercellular junction proteins and enhance digestion. Phenol red is a pH indicator. The solution is purplish-red when it is more basic, orange-red when it is more acidic, and pink when it is near neutral.

This product is a 0.25% trypsin digestion solution, containing 0.25% trypsin, dissolved in Hank's buffer, containing 0.9 mM EDTA, w

ithout phenol red indicator, sterilized by 0.1 μm filtration.

Storage and Handling Conditions

Transport with dry ice; Store at -20℃, valid for 12 months. Avoid repeated freezing and thawing.

Usage

Adherent cells

1. Blot off the cell culture medium and wash the cells with sterile PBS, Hanks solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down by gently blowing the cells with a pipette gun. Then the trypsin cell digestion solution is removed by suction, and the cell culture medium containing serum is added to gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipette gun, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1.

Due to the different properties of tissues or cells, the experimenter should determine the best digestion time according to the specific situation; The time of digesting cells should not be too long, otherwise the cell adhesion and growth will be affected.

2.

This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.

3. This product should not be stored at 4℃ for a long time to avoid repeated freezing and thawing. It is suggested to be divided into small parts and stored at -20℃.

4.

For the selection of EDTA and phenol red in pancreatic enzymes, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA. If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin concentration. If it is necessary to detect apoptosis by flow cytometry, trypsin digestion solution without EDTA should be used.

6. For your safety and health, please wear a lab coat and disposable gloves when operating.

0.25% Trypsin (Soluble in D-Hank's, Phenol Red, no EDTA)

Share

Cat.No. : G4013-100ML

Brand : Servicebio

Spec.: 100 mL (Soluble in D-Hank's, Phenol Red, no EDTA)

Product Introduction

Product Information

Product Name	Cat.No.	Spec.
0.25% Trypsin (Soluble in D-Hank's, Phenol Red, no EDTA)	G4013-100ML	100 mL

Introduction

Trypsin, abbreviated as trypsin, is a serine hydrolase that cuts off the carboxyl termini of lysine and arginine residues in polypeptide chains. In the process of tissue cell extraction, culture, and in vitro cell culture, trypsin digestion solution is use

d to hydrolyze intercellular proteins, so that the tissue or cell can be dispersed into a single cell. The digestion ability of trypsin was the strongest at 37℃ pH 8.0. The common working concentration of trypsin is 0.25%. EDTA can chelate calcium and magn

esium ions. The use of EDTA in trypsin solution can accelerate the hydrolysis of intercellular junction proteins and enhance digestion. Phenol red is a pH indicator. The solution is purplish-red when it is more basic, orange-red when it is more acidic, and pink when it is near neutral.

This product is a 0.25% trypsin digestion solution, containing 0.25% trypsin, dissolved in Hank's buffer, EDTA free, containing phenol red indicator, sterilized by 0.1 μm filtration.

Storage and Handling Conditions

Transport with dry ice; Store at -20℃, valid for 12 months. Avoid repeated freezing and thawing.

Usage

Adherent cells

1. Blot off the cell culture medium and wash the cells with sterile PBS, Hanks solution or serum-free culture medium to remove the remaining serum.
2. Add an appropriate amount of this product to cover the cells, and let it stand for digestion for 1-5 min at room temperature.
3. Under the microscope, when the cells appear obvious contraction, it is easier to blow the cells down by gently blowing the cells with a pipette gun. Then the trypsin cell digestion solution is removed by suction, and the cell culture medium containing serum is added to gently blow down the cells to make cell suspension, which can be directly subcultured. If it is difficult to remove cells from the bottom of the plate when gently blown with a pipette gun, indicating insufficient digestion time, re-digest with the addition of trypsin cell digestion solution. Do not overdigest.

Note

1.

Due to the different properties of tissues or cells, the experimenter should determine the best digestion time according to the specific situation; The time of digesting cells should not be too long, otherwise the cell adhesion and growth will be affected.

2.

This product does not contain bacteriostatic agent. Special attention should be paid to aseptic operation during use to avoid contamination of digestive juices by microorganisms.

3. This product should not be stored at 4℃ for a long time to avoid repeated freezing and thawing. It is suggested to be divided into small parts and stored at -20℃.

4.

For the selection of EDTA and phenol red in pancreatic enzymes, the trypsin digestion solution containing EDTA can be selected for general tumor cells according to experimental needs. For more sensitive and vulnerable cells, such as primary cells and easily digestible cells, choose a trypsin digestion solution without EDTA. If the cells are particularly sensitive, choose a trypsin digestion solution with a lower trypsin concentration. If it is necessary to detect apoptosis by flow cytometry, trypsin digestion solution without EDTA should be used.

5. For your safety and health, please wear a lab coat and disposable gloves when operating.

Servicebio® Swe Recombinant Trypsin-EDTA, Phenol Red

Cat. No.: G4021

Product Information

Product Name	Cat. No.	Spec.
Swe Recombinant Trypsin-EDTA, Phenol Red	G4021	100 mL

Product Description/Introduction

Trypsin is a serine hydrolase that cuts off the carboxyl terminus in lysine and arginine in polypeptide chains. Tryptic digests are used in tissue cell extraction and culture, as well as in in vitro cell culture, to hydrolyze intercellular proteins and dissociate tissues or cells into individual cells.

Swe Recombinant Trypsin Cell Digestion Solution (with EDTA, with Phenol Red), is a ready-to-use recombinant trypsin cell digestion solution that is stable at room temperature and is Animal origin-free (AOF). This product is not of animal origin, gentle digestion, fast and effective, almost non-destructive to cells, stable at room temperature, and therefore easy to store and transport, convenient and fast. It is a perfect substitute for ordinary pancreatic enzyme cell digestive juices.

Storage and Shipping Conditions

Transport at room temperature; Store at room temperature or 4℃ away from light for 12 months. Stored at 4℃, the effect is better.

Product Content

Component	G4021
Swe Recombinant Trypsin-EDTA, Phenol Red	100 mL
Manual	1 pc

Assay Protocol / Procedures

Note: The following protocols are primarily used for adherent cells. For tissue digestion, the tissue needs to be cut to the right size first. Different tissues need to be digested The time required for digestion varies greatly, and it is usually preferred that the tissue can be sufficiently broken up after digestion.

1. Remove the cell culture medium and wash the cells 1-2 times with sterile PBS or D-PBS free of Ca^{2+} and Mg^{2+}.
2. Add appropriate amount of Swe recombinant trypsin to cover the cells, and observe the digestion under the microscope, the digestion time of most cells is between 0.5-3 min; for difficult-to-digest cells, they can be put into the cell culture incubator for a certain period of time (the digestion time is for reference only, and the specific digestion time needs to be determined according to the actual situation).
3. When the cells show obvious contraction or morphological changes, add an appropriate amount of serum-containing cell culture solution to terminate the digestion (e.g., when gently blowing with a pipette It is difficult to dislodge the cells from the bottom of the plate, indicating that the digestion time is insufficient, trypsin cell digest can be added to re-digest).
4. Collect the cell suspension in a centrifuge tube and centrifuge it at 800-1200 rpm/min for 3-5 min, then add an appropriate amount of serum-containing cell culture medium.
5. The cells are gently blown to make a cell suspension ready for passaging culture or subsequent experiments.

Note

1. This product is very stable at room temperature, but it is still recommended to store it at 4°C. If stored at room temperature, it is necessary to avoid light as much as possible and to ensure that the room temperature is avoid prolonged periods of storage at room temperature above 30°C.
2. Receive the product and store it in portions as needed; If it needs to be stored at -20°C, avoid repeated freezing and thawing.
3. This product is a sterile ready-to-use product and has been tested for mycoplasma, endotoxin, etc. Please pay attention to aseptic operation during use.
4. After the product is frozen at low temperature, the solution may turn yellow. This is due to the change of pH value of the solution caused by the temperature. After normal thawing and rewarming, the normal color will be restored, which will not affect the performance of the product.
5. For your health and safety, please wear a lab coat and disposable gloves during operation..

Servicebio® Swe Recombinant Trypsin-EDTA, without Phenol Red

Cat. No.: G4022

Product Information

Product Name	Cat. No.	Spec.
Swe Recombinant Trypsin-EDTA, without Phenol Red	G4022	100 mL

Product Description/Introduction

Trypsin is a serine hydrolase that cuts off the carboxyl terminus in lysine and arginine in polypeptide chains. Tryptic digests are used in tissue cell extraction and culture, as well as in in vitro cell culture, to hydrolyze intercellular proteins and dissociate tissues or cells into individual cells.

Swe Recombinant Trypsin Cell Digestion Solution (EDTA, without Phenol Red), is a ready-to-use recombinant trypsin cell digestion solution that is stable at room temperature and is Animal origin-free (AOF). This product is not of animal origin, gentle digestion, fast and effective, almost non-destructive to cells, stable at room temperature, and therefore easy to store and transport, convenient and fast. It is a perfect substitute for ordinary pancreatic enzyme cell digestive juices.

Storage and Shipping Conditions

Transport at room temperature; Store at room temperature or 4℃ away from light for 12 months. Stored at 4℃, the effect is better.

Product Content

Component	G4022
Swe Recombinant Trypsin-EDTA, without Phenol Red	100 mL
Manual	1 pc

Assay Protocol / Procedures

Note: The following protocols are primarily used for adherent cells. For tissue digestion, the tissue needs to be cut to the right size first. Different tissues need to be digested The time required for digestion varies greatly, and it is usually preferred that the tissue can be sufficiently broken up after digestion.

1. Remove the cell culture medium and wash the cells 1-2 times with sterile PBS or D-PBS free of Ca^{2+} and Mg^{2+}.
2. Add appropriate amount of Swe recombinant trypsin to cover the cells, and observe the digestion under the microscope, the digestion time of most cells is between 0.5-3 min; for difficult-to-digest cells, they can be put into the cell culture incubator for a certain period of time (the digestion time is for reference only, and the specific digestion time needs to be determined according to the actual situation).
3. When the cells show obvious contraction or morphological changes, add an appropriate amount of serum-containing cell culture solution to terminate the digestion (e.g., when gently blowing with a pipette It is difficult to dislodge the cells from the bottom of the plate, indicating that the digestion time is insufficient, trypsin cell digest can be added to re-digest).
4. Collect the cell suspension in a centrifuge tube and centrifuge it at 800-1200 rpm/min for 3-5 min, then add an appropriate amount of serum-containing cell culture medium.
5. The cells are gently blown to make a cell suspension ready for passaging culture or subsequent experiments.

Note

1. This product is very stable at room temperature, but it is still recommended to store it at 4°C. If stored at room temperature, it is necessary to avoid light as much as possible and to ensure that the room temperature is avoid prolonged periods of storage at room temperature above 30°C.
2. Receive the product and store it in portions as needed; If it needs to be stored at -20°C, avoid repeated freezing and thawing.
3. This product is a sterile ready-to-use product and has been tested for mycoplasma, endotoxin, etc. Please pay attention to aseptic operation during use.
4. For your health and safety, please wear a lab coat and disposable gloves during operation..

Servicebio® 0.02% EDTA Cell Digestion Solution (Versene solution)

Cat. No.: G4050

Product Information

Product Name	Cat. No.	Spec.
0.02% EDTA Cell Digestion Solution (Versene solution)	G4050	100 mL

Product Description/Introduction

0.02% EDTA Cell Digest (Versene Solution), also known as EDTA Cell Dissociation Solution, is composed primarily of 0.02% EDTA (~0.5 mM). It is prepared in calcium- and magnesium-free D-PBS, animal origin-free (AOF), phenol red-free, and Chemical defined (CD), a mild non-enzymatic ready-to-use cell digest. EDTA chelates bivalent metal ions such as Ca2+ and Mg2+ on the cell membrane, thereby breaking the intercellular connection and prompting the cell to dissociate into a single cell. This product has low toxicity, no protease activity, and will not destroy the membrane surface protein molecules. It is suitable for weak adherent cell lines (such as 293T, NIH/3T3, etc.), and is often mixed with trypsin products in a certain proportion.

Storage and Shipping Conditions

Ship with wet ice; Store at 4℃ for 12 months.

Product Content

Component	G4050
0.02% EDTA Cell Digestion Solution (Versene solution)	100 mL
Manual	1 pc

Assay Protocol / Procedures

Note: Note: The following protocols are primarily used for weaker adherent cell lines.

1. Remove the cell culture medium and wash the cells 1-2 times with sterile PBS or D-PBS free of Ca^{2+} and Mg^{2+}.
2. Add 0.02%EDTA cell digestion solution (Versene solution) to cover the cells and leave at room temperature for 1-2 minutes, shaking the petri dish or culture bottle gently. Note: The digestion time of different cells is different. If the cell wall is firmly attached and difficult to digest, the treatment time or the amount of dissociation solution can be appropriately increased.
3. When the cells showed obvious shrinkage or morphological changes, aspirate the 0.02% EDTA cell digest, add appropriate amount of PBS or D-PBS, and blow the cells. Then centrifuge the cells at 800-1200 rpm/min for 3-5 min, resuspend the cells with appropriate amount of culture medium, and then use them for subsequent experiments.
4. If it is difficult to make the cells fall off the bottom of the plate when gently blowing with the pipette, indicating insufficient digestion time, add an appropriate amount of 0.02%EDTA cell digestive solution for re-digestion.

Note

1. This product dissociates very gently and is not recommended for routine passaging of more strongly adherent cells.
2. Because EDTA is not neutralized, the digested cells need to be washed with PBS to remove EDTA, otherwise it will cause difficulty in cell adhesion.
3. This product is a sterile ready-to-use product and has been tested for mycoplasma, endotoxin, etc. Please pay attention to aseptic operation during use.
4. For your health and safety, please wear a lab coat and disposable gloves during operation.

Servicebio® Swe Recombinant Trypsin (10×) EDTA, phenol red

Cat. No.: G4053

Product Information

Product Name	Cat. No.	Spec.
Swe Recombinant Trypsin (10×) EDTA, phenol red	G4053	100 mL

Product Description/Introduction

Swe Recombinant Trypsin is an animal origin-free recombinant enzyme, it cleaves peptide bonds on the C-terminal side of lysine and arginine but with greater specificity than native trypsin preparations due to the superior purity.Swe Recombinant Trypsin (10×)-EDTA, phenol red, is a 10× Swe Recombinant Trypsin formulated in DPBS/1 mM EDTA with phenol red. It can be diluted to 1× using a balanced salt solution containing 1.1mMEDTA under sterile conditions, or directly used for dissociation of strongly adherent cells. Features of this product: Gentle on cells, Room-temperature stable, Easy to use, Animal Origin Free (AOF).

Storage and Shipping Conditions

Store at room temperature or 4℃ protect from light..4℃ is better for preservation.

Shelf life: 12 months.

Shipping conditions: Ambient.

Product Content

Component	G4053
Swe Recombinant Trypsin (10×) EDTA, phenol red	100 mL
Manual	1 pc

Assay Protocol / Procedures

1. *(Optional)* Swe Recombinant Trypsin (10×), diluted to 1× with balanced salt solution containing 1.1 mM EDTA under sterile conditions before use, and can also be used directly without dilution for strongly adherent cells.
2. Remove the cell culture medium and wash the cells 1-2 times with sterile PBS or D-PBS free of Ca^{2+} and Mg^{2+}.
3. Add appropriate volume (e.g., 5 mL in a 75 cm^2 flask) of Swe Recombinant Trypsin to cover the cells. Incubate at room temperature or 37°C until cells have detached. Observe cell monolayer using an inverted microscope to ensure complete cell detachment from the surface of the flask.
4. Add 5 mL of pre-warmed complete medium to flask. Collect the cell suspension in a centrifuge tube.
5. Centrifuge it at 800-1200 rpm/min for 5-10 min, then discard supernatant and resuspend cell pellet with 2–5 mL of pre-warmed complete medium for passaging culture or subsequent experiments.

Note

1. This product is very stable at room temperature, but it is still recommended to store it at 4°C. Avoid room temperature above 30℃. Avoid repeated freezing and thawing, if you need to store at -20℃.
2. This product is sterile and qualified by mycoplasma, endotoxin and other tests. Please pay attention to aseptic operation during use.
3. For your health and safety, please wear a lab coat and disposable gloves during operation..

Servicebio® Swe Recombinant Trypsin (10×)-EDTA, no phenol red

Cat. No.: G4054

Product Information

Product Name	Cat. No.	Spec.
Swe Recombinant Trypsin (10×)-EDTA, no phenol red	G4054	100 mL

Product Description/Introduction

Swe Recombinant Trypsin is an animal origin-free recombinant enzyme, it cleaves peptide bonds on the C-terminal side of lysine and arginine but with greater specificity than native trypsin preparations due to the superior purity.Swe Recombinant Trypsin (10×)-EDTA, phenol red, is a 10×Swe Recombinant Trypsin formulated in DPBS/1 mM EDTA without phenol red. It can be diluted to 1×using a balanced salt solution containing 1.1mMEDTA under sterile conditions, or directly used for dissociation of strongly adherent cells. Features of this product: Gentle on cells, Room-temperature stable, Easy to use, Animal Origin Free (AOF).

Storage and Shipping Conditions

Store at room temperature or 4℃ protect from light..4℃ is better for preservation.

Shelf life: 12 months.

Shipping conditions: Ambient.

Product Content

Component	G4054
Swe Recombinant Trypsin (10×)-EDTA, no phenol red	100 mL
Manual	1 pc

Assay Protocol / Procedures

1. *(Optional)* Swe Recombinant Trypsin (10×), diluted to 1× with balanced salt solution containing 1.1 mM EDTA under sterile conditions before use, and can also be used directly without dilution for strongly adherent cells.
2. Remove the cell culture medium and wash the cells 1-2 times with sterile PBS or D-PBS free of Ca^{2+} and Mg^{2+}.
3. Add appropriate volume (e.g., 5 mL in a 75 cm^2 flask) of Swe Recombinant Trypsin to cover the cells. Incubate at room temperature or 37°C until cells have detached. Observe cell monolayer using an inverted microscope to ensure complete cell detachment from the surface of the flask.
4. Add 5 mL of pre-warmed complete medium to flask. Collect the cell suspension in a centrifuge tube.
5. Centrifuge it at 800-1200 rpm/min for 5-10 min, then discard supernatant and resuspend cell pellet with 2–5 mL of pre-warmed complete medium for passaging culture or subsequent experiments.

Note

1. This product is very stable at room temperature, but it is still recommended to store it at 4°C. Avoid room temperature above 30℃. Avoid repeated freezing and thawing, if you need to store at -20℃.
2. This product is sterile and qualified by mycoplasma, endotoxin and other tests. Please pay attention to aseptic operation during use.
3. For your health and safety, please wear a lab coat and disposable gloves during operation..

Servicebio® Serum/Protein-Free Non-gradient Cell Freezing Medium (with DMSO)

Cat. No.: G1709

Product Information

Product Name	Cat. No.	Spec.
Serum/Protein-Free Non-gradient Cell Freezing Medium (with DMSO)	G1709-100ML	100 mL
	G1709-50ML	5×10 mL

Product Description

Serum/Protein-Free Non-gradient Cell Freezing Medium is a chemically defined, serum-free, protein-free, DMSO-containing, ready-to-use non-gradient cryopreservation medium. This product is chemically defined and serum-free, which can effectively avoid the unstable results of serum batch instability and unknown composition on cell freezing. Serum-free and protein-free, the potential effects of certain proteins on some specific cells can be avoided and applied to serum-free culture cells or expressed cells for cryopreservation. In addition, compared with traditional cryopreservation medium, this product take the non-gradient freezing, only need to resuspend the cells with this product and put them directly into -80℃ refrigerator, eliminating the operation of tedious gradient freezing.

This product has been continuously optimized and debugged by our technical team, and while it has the above advantages, it greatly weakens the crystallization process of water, protects cells from solute damage, and effectively improves viability and cell recovery after thawing. Suitable for multi-type, multi-source, and multi-purpose cell freezing.

Storage and Shipping Conditions

Ship with wet ice; Store away from light at 2-8℃, valid for 12 months.

Product Contents

Component	G1790-100ML	G1709-50ML
Serum/Protein-Free Non-gradient Cell Freezing Medium (with DMSO)	100 mL	5×10 mL
Manual	1 pc	

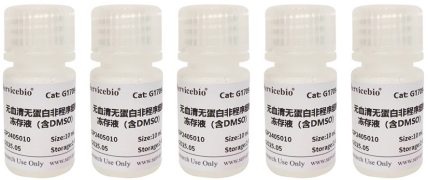
Assay Protocol

1. Cells in logarithmic growth phase are collected in centrifuge tube according to the conventional method.
2. Centrifuge cells for 3-5 minutes at 800-1200 rpm/min. Remove supernatant and retain cellular precipitate.

3. Add Serum/Protein-Free Non-gradient Cell Freezing Medium, gently resuspend cells, cell density is controlled at 8×10^5 - 5×10^6/mL.
4. Transfer the cell-containing cryopreservation medium in the appropriate volume (1 mL/piece recommended) to the cell cryotube.
5. Freeze the cells directly in -80℃ refrigerator.
6. Move into liquid nitrogen for long-term storage after 24 h, also can be stored in -80℃ refrigerator for short-term storage.

Note

1. Gently shake the reagent before use to ensure even distribution of each component.
2. Please use up the product within 3 months after opening, also can be divided and put in -20℃ for long-term storage.
3. Make sure the cells are in good condition before freezing, and make sure the corresponding markers are made on the cell cryotube. Use marker pen that are resistant to organic solvents to avoid loss of markers on the cell cryotube.
4. The product has a certain viscosity, recovery should not be centrifuged directly, it is recommended to dilute first and then centrifuged.
5. For your safety and health, please wear safety glasses, gloves or protective clothing.



Serum/Protein-Free Non-gradient Cell Freezing Medium (with DMSO)

Can be directly stored at -80℃. Serum/Protein-Free is safer. It contains DMSO and is suitable for cryopreservation of multiple types of cells.

Cat.No. : G1709-50ML

Brand : Servicebio

Spec.: 5×10 mL（with DMSO）

Product Introduction

Product Information

Product Name	Cat. No.	Spec.
Serum/Protein-Free Non-gradient Cell Freezing Medium (with DMSO)	G1709-100ML	100 mL
	G1709-50ML	5×10 mL

Product Description

Serum/Protein-Free Non-gradient Cell Freezing Medium is a chemically defined, serum-free, protein-free, DMSO-containing, ready-to-use non-gradient cryopreservation medium. This product is chemically defined and serum-free, which can effectively avoid the unstable results of serum batch instability and unknown composition on cell freezing. Serum-free and protein-free, the potential effects of certain proteins on some specific cells can be avoided and applied to serum-free culture cells or expressed cells for cryopreservation. In addition, compared with traditional cryopreservation medium, this product take the non-gradient freezing, only need to resuspend the cells with this product and put them directly into -80℃ refrigerator, eliminating the operation of tedious gradient freezing.

This product has been continuously optimized and debugged by our technical team, and while it has the above advantages, it greatly weakens the crystallization process of water, protects cells from solute damage, and effectively improves viability and cell recovery after thawing. Suitable for multi-type, multi-source, and multi-purpose cell freezing.

Storage and Shipping Conditions

Ship with wet ice; Store away from light at 2-8℃, valid for 12 months.

Product Contents

Component	G1790-100ML	G1709-50ML
Serum/Protein-Free Non-gradient Cell Freezing Medium (with DMSO)	100 mL	5×10 mL
Manual	1 pc	

Assay Protocol

1. Cells in logarithmic growth phase are collected in centrifuge tube according to the conventional method.
2. Centrifuge cells for 3-5 minutes at 800-1200 rpm/min. Remove supernatant and retain cellular precipitate.
3. Add Serum/Protein-Free Non-gradient Cell Freezing Medium, gently resuspend cells, cell density is controlled at 8×105 - 5×106/mL.
4. Transfer the cell-containing cryopreservation medium in the appropriate volume (1 mL/piece recommended) to the cell cryotube.
5. Freeze the cells directly in -80℃ refrigerator.
6. Move into liquid nitrogen for long-term storage after 24 h, also can be stored in -80℃ refrigerator for short-term storage.

Note

1. Gently shake the reagent before use to ensure even distribution of each component.
2. Please use up the product within 3 months after opening, also can be divided and put in -20℃ for long-term storage.
3. Make sure the cells are in good condition before freezing, and make sure the corresponding markers are made on the cell cryotube. Use marker pen that are resistant to organic solvents to avoid loss of markers on the cell cryotube.
4. The product has a certain viscosity, recovery should not be centrifuged directly, it is recommended to dilute first and then centrifuged.
5. For your safety and health, please wear safety glasses, gloves or protective clothing.

Servicebio® Serum/Protein-Free Non-gradient Cell Freezing Medium (without DMSO)

Cat. No.: G1711

Product Information

Product Name	Cat. No.	Spec.
Serum/Protein-Free Non-gradient Cell Freezing Medium (without DMSO)	G1711-50ML	5×10 mL
	G1711-100ML	100 mL

Product Description/Introduction

Serum/Protein-Free Non-gradient Cell Freezing Medium (without DMSO) is a chemically defined, serum-free, protein-free, without DMSO, ready-to-use non-gradient cryopreservation medium. This product is chemically defined and serum-free, which can effectively avoid the unstable results of serum batch instability and unknown composition on cell freezing. Serum-free and protein-free, the potential effects of certain proteins on some specific cells can be avoided and applied to serum-free culture cells or expressed cells for cryopreservation. DMSO-free, which can effectively reduce the toxic effects of DMSO on cells. In addition, compared with traditional cryopreservation medium, this product take the non-gradient freezing, only need to resuspend the cells with this product and put them directly into -80℃ refrigerator, eliminating the operation of tedious gradient freezing.

This product guarantees freezing effect and optimizes the overall formulation, removal of DMSO as an intracellular protective agent to eliminate the toxic effect of DMSO on cells. Effectively improves viability and cell recovery after thawing. This product is universal for a wide range of cell cryopreservation, includes multiple types of stem cell cryopreservation.

Storage and Shipping Conditions

Ship with wet ice; Store away from light at 2-8℃, valid for 12 months.

Product Contents

Component	G1711-50ML	G1711-100ML
Serum/Protein-Free Non-gradient Cell Freezing Medium (without DMSO)	5×10 mL	100 mL
Manual	1 pc	

Assay Protocol / Procedures

1. Cells in logarithmic growth phase are collected in centrifuge tube according to the conventional method.
2. Centrifuge cells for 3-5 minutes at 800-1200 rpm/min. The supernatant was removed and the cellular precipitate was retained.
3. Add **Serum/Protein-Free Non-gradient Cell Freezing Medium (without DMSO)**, gently resuspend cells, cell density is controlled at 8×10^5 - 5×10^6/mL.
4. Transfer the cell-containing cryopreservation medium in the appropriate volume (1 mL/piece recommended) to the cell cryotube.

5. Freeze the cells directly in -80℃ refrigerator.
6. Move into liquid nitrogen for long-term storage after 24 h, also can be stored in -80℃ refrigerator for short-term storage.

Note

1. Gently shake the reagent before use to ensure even distribution of each component.
2. The product is slightly sticky, which is a normal phenomenon.
3. Please use up the product within 3 months after opening, also can be divided and put in -20℃ for long-term storage.
4. The product has a certain viscosity, recovery should not be centrifuged directly, it is recommended to dilute first and then centrifuged.
5. Make sure the cells are in good condition before freezing, and make sure the corresponding markers are made on the cell cryotube. Use marker pen that are resistant to organic solvents to avoid loss of markers on the cell cryotube.
6. For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Hybridoma cell specific Serum/Protein-Free Non-gradient Cell Freezing Medium

Cat. No.: G1712

Product Information

Product Name	Cat. No.	Spec.
Hybridoma cell specific Serum/Protein-Free Non-gradient Cell Freezing Medium	G1712-100ML	100 mL

Product Description

Serum-free protein-free non-programmed cell cryopreserved solution for hybridoma cells is a ready-to-use non-programmed cell cryopreserved solution with clear chemical composition, no serum, no protein and containing DMSO. This product is chemically defined and serum-free, which can effectively avoid the unstable results of serum batch instability and unknown composition on cell freezing. Serum-free and protein-free, the potential effects of certain proteins on some specific cells can be avoided and applied to serum-free culture cells or expressed cells for cryopreservation. In addition, compared with traditional cryopreservation medium, this product take the non-gradient freezing, only need to resuspend the cells with this product and put them directly into -80℃ refrigerator, eliminating the operation of tedious gradient freezing.

This product has been continuously optimized and debugged by our technical team, and while it has the above advantages, it greatly weakens the crystallization process of water, protects cells from solute damage, and effectively improves viability and cell recovery after thawing. Special optimization is made for sensitive cell lines such as hybridoma, which can support the direct freezing of hybridoma cells without digesting the whole plate.

Storage and Shipping Conditions

Ship with wet ice; Store away from light at 2-8℃, valid for 12 months.

Product Contents

Component	G1712-100ML
Hybridoma cell specific Serum/Protein-Free Non-gradient Cell Freezing Medium	100 mL
Manual	1 pc

Assay Protocol

1. Hybridoma routine cryopreservation scheme:

1.1. Hybridoma cells in good condition are collected in centrifuge tubes according to conventional methods;

1.2. Centrifuge at 800-1200rpm/min for 3-5min, remove the supernatant, and retain cell precipitation;

1.3. Adding serum-free protein-free non-programmed frozen solution for hybridoma cells, gently blow the heavy suspension cells, and the cell density is controlled within 1×10^6~5×10^6 /mL;

1.4. Transfer the above cellular freeze-storage solution to the cell freeze-storage tube in an appropriate volume (1mL/ branch is recommended);

1.5. Freeze the cell cryotubes directly in a -80°C refrigerator;

1.6. The next day transfer to the liquid nitrogen tank for long-term storage, can also be placed in the -80℃ refrigerator for short-term storage.

2. Hybridoma full plate freezing protocol during subcloning (96-well plate as an example) :

2.1. Pre-warm the serum-free protein-free non-programmed cryopreservation solution for hybridoma cells by placing it in culture at 37°C in advance;

2.2. Remove the original cell culture medium and add a certain volume of serum-free, protein-free, non-programmed cryopreservation solution for hybridoma cells (100 μL for 96-well plates);

2.3. After sealing the openings of the cell-well plate with a sealing film, the cell-well plate was directly placed flat into a -80°C refrigerator for freezing;

2.4. For recovery, thaw the cell plate in a 37°C incubator (can be placed on top of a shaker to accelerate thawing);

2.5. After thawing, aspirate the supernatant directly and add 200 μL of fresh medium for incubation; or mix the cells with a plate, transfer 30 μL of each well into a new plate and make up 200 μL of fresh medium for incubation.

Note

1. Gently shake the reagent before use to ensure even distribution of each component.
2. Please use up the product within 3 months after opening, also can be divided and put in -20℃ for long-term storage.
3. Make sure the cells are in good condition before freezing, and make sure the corresponding markers are made on the cell cryotube. Use marker pen that are resistant to organic solvents to avoid loss of markers on the cell cryotube.
4. The product has a certain degree of viscosity, the routine frozen storage program recovery do not directly centrifuged, it is recommended to dilute and then centrifuged before the seed plate; the whole plate frozen storage in accordance with the instructions of the program steps can be carried out.
5. For your safety and health, please wear safety glasses, gloves or protective clothing.

Servicebio® Penicillin-Streptomycin Mixture (Double antibiotics, 100×)

Cat. #: G4003-100ML

Product Information

Product Name	Cat. No.	Spec.
Penicillin-Streptomycin Mixture (Double antibiotics, 100×)	G4003-100ML	100 mL

Product Description/Introduction

This product is a mixture of penicillin-streptomycin, also known as double antibiotics, which is a common antibiotic used to prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria. Penicillin was originally purified from the fungi Penicillium and acts by interfering directly with the turnover of the bacterial cell wall and indirectly by triggering the release of enzymes that further alter the cell wall. Streptomycin was originally purified from Streptomyces griseus. It acts by binding to the 30S subunit of the bacterial ribosome, leading to inhibition of protein synthesis and death in susceptible bacteria.

This product contains 10,000 U/mL of penicillin and 10 mg/mL of streptomycin and is filtered through 0.1 μm to remove bacteria. Use at a ratio of 1 mL of penicillin/streptomycin per 100 mL of culture medium.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months.

Product Component

Component Number	Component	G4003-100ML
G4003	Penicillin-Streptomycin Mixture (Double antibiotics, 100×)	100 mL

Note

1. Thaw at 4℃ and mix well before use. To avoid repeated freezing-thawing, it is recommended to pack in small portions and store at -20℃ after the first thawing.
2. This product is a concentrated solution, please dilute as required.
3. This product should not be stored at 4℃ or room temperature for a long time. Antibiotics will degrade at high temperature.
4. Please observe aseptic handling to avoid bacterial contamination.
5. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® Penicillin-Streptomycin-Gentamicin Additive (100×)

Cat. No.: G4014

Product Information

Product Name	Cat. No.	Spec.
Penicillin-Streptomycin-Gentamicin Additive (100×)	G4014-100ML	100 mL

Product Description

Penicillin is effective in inhibiting Gram-positive bacteria by interfering with the synthesis of bacteria cell walls. Streptomycin inhibits protein synthesis in bacteria by binding to the 30S subunit of bacterial ribosome, thereby inhibiting bacterial proliferation. Acts primarily on Gram-negative bacteria and is effective against Gram-positive bacteria. As a broad-spectrum aminoglycoside antibiotic, gentamicin has similar properties to streptomycin and can act synergistically with streptomycin.

This product is a mixture of penicillin-streptomycin-gentamicin, which can be added to the cell culture medium in a certain proportion to prevent the contamination of cells.

Storage and Shipping Conditions

Ship with dry ice; Store away from light at -20℃, valid for 12 months.

Product Contents

Component	G4014-100ML
Penicillin-Streptomycin-Gentamicin Additive (100×)	100 mL
Manual	1 pc

Assay Protocol

This product is a mixture of penicillin 10,000 U/mL, streptomycin 10 mg/mL and gentamicin 5 mg/mL. After thawing at 2-8°C, shake the reagent appropriately to ensure that the components are fully dissolved. Simply add them to the cell culture medium at a ratio of 1:100.

Note

1. This product is a sterile product, attention to aseptic operation to avoid product contamination.
2. After receiving this product, it can be properly divided to avoid repeated freezing and thawing.
3. The above mentioned ratio is only recommended ratio and can be adjusted according to the actual situation.
4. This product is for scientific research only and is not intended for clinical diagnosis or treatment and other.

Servicebio® Penicillin-Streptomycin-Amphotericin B Additive (100×)

Cat. No.: G4015

Product Information

Product Name	Cat. No.	Spec.
Penicillin-Streptomycin-Amphotericin B Additive (100×)	G4015-100ML	100 mL

Product Description

Penicillin is effective in inhibiting Gram-positive bacteria by interfering with the synthesis of bacteria cell walls. Streptomycin inhibits protein synthesis in bacteria by binding to the 30S subunit of bacterial ribosome, thereby inhibiting bacterial proliferation. Acts primarily on Gram-negative bacteria and is effective against Gram-positive bacteria. Amphotericin B actively binds to sterols on fungal cell membranes and leads to the formation of micropores, increasing fungal cell membrane permeability and preventing fungal growth.

This product is a mixture of penicillin-streptomycin-amphotericin B, which can be added to the cell culture medium in a certain proportion to prevent the contamination of cells by bacteria and fungi.

Storage and Shipping Conditions

Ship with dry ice; Store away from light at -20℃, valid for 12 months.

Product Contents

Component	G4015-100ML
Penicillin-Streptomycin-Amphotericin B Additive (100×)	100 mL
Manual	1 pc

Assay Protocol

This product is a mixture of penicillin 10,000 U/mL, streptomycin 10 mg/mL and amphotericin B 25 μg/mL. After thawing at 2-8°C, shake the reagent appropriately to ensure that the components are fully dissolved. Simply add them to the cell culture medium at a ratio of 1:100.

Note

1. This product is a sterile product, attention to aseptic operation to avoid product contamination.
2. After receiving this product, it can be properly divided to avoid repeated freezing and thawing.
3. The above mentioned ratio is only recommended ratio and can be adjusted according to the actual
4. This product is for scientific research only and is not intended for clinical diagnosis or treatment and other.
5. For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Penicillin-Streptomycin-Glutamine Additive (100×)

Cat. No.: G4016

Product Information

Product Name	Cat. No.	Spec.
Penicillin-Streptomycin-Glutamine Additive (100×)	G4016-100ML	100 mL

Product Description

Penicillin is effective in inhibiting Gram-positive bacteria by interfering with the synthesis of bacteria cell walls. Streptomycin inhibits protein synthesis in bacteria by binding to the 30S subunit of bacterial ribosome, thereby inhibiting bacterial proliferation. Acts primarily on Gram-negative bacteria and is effective against Gram-positive bacteria. Because of their antibacterial properties, penicillin and streptomycin are often used in combination during cell culture to prevent contamination of cells with bacteria. L-glutamine is the main energy source for cells and is involved in protein synthesis and nucleic acid metabolism, is an important nutrient in cell culture. However, L-glutamine is unstable in solution and degrades spontaneously, especially at higher temperatures, and more rapidly.

This product is a mixture of penicillin-streptomycin-glutamine, which can be added to the cell culture medium in a certain proportion to prevent the contamination of cells and additional partial supplementation with L-glutamine.

Storage and Shipping Conditions

Ship with dry ice; Store away from light at -20℃, valid for 12 months.

Product Contents

Component	G4016-100ML
Penicillin-Streptomycin-Glutamine Additive (100×)	100 mL
Manual	1 pc

Assay Protocol

This product is a mixture of penicillin 10,000 U/mL, streptomycin 10 mg/mL and glutamine 200mM. After thawing at 2-8°C, shake the reagent appropriately to ensure that the components are fully dissolved. Simply add them to the cell culture medium at a ratio of 1:100.

Note

1. This product is a sterile product, attention to aseptic operation to avoid product contamination.

2. After receiving this product, it can be properly divided to avoid long-term storage at room temperature or 4°C and repeated freezing and thawing.
3. The above mentioned ratio is only recommended ratio and can be adjusted according to the actual situation.
4. This product is for scientific research only and is not intended for clinical diagnosis or treatment and other.
5. For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Puromycin Solution (10mg/mL)

Cat. No.: G4017-1ML

Product Information

Product Name	Cat. No.	Spec.
Puromycin Solution (10mg/mL)	G4017-1ML	1 mL

Product Description

Puromycin is an aminoglycoside antibiotic produced by the fermentation and metabolism of Streptomyces alboniger. In the field of cell biology is widely used as a screening antibiotic in mammalian cell culture systems. For screening eukaryotic or prokaryotic polyclonal or monoclonal cells obtained by plasmid transfection, transformation, virus infestation and other methods that can express the pac gene (*puro*^{r}). It is characterized by rapid cellular action, typically killing 99% of cells that do not express the pac gene in two days. Puromycin is used not only for the screening of stable cell lines, but also for the maintenance of stable cell lines. In addition, puromycin can also be used to screen for E. coli strains, yeast strains, etc that can express the pac gene.

The product contains 10 mg/mL puromycin, 20 mM HEPES, pH 6.2-6.8@25°C. After filtering and removing bacteria, it can be directly used for cell culture screening. Commonly used working concentration is 0.5-10 μg/mL. However, the optimal working concentration needs to be determined by a pre-experimental dose response curve.

Storage and Shipping Conditions

Ship with dry ice; Store at -20℃ to avoid repeated freeze-thaw, valid for 12 months.

Product Contents

Component	G4017-1ML
Puromycin solution (10mg/mL)	1mL
Manual	1 pc

Assay Protocol

1. Determination of the dose-response curve for puromycin (Take shRNA transfection or lentivirus infection as an example):

   The effective screening concentration of puromycin is correlated with the cell type, growth state, cell density, cell metabolism and the cell cycle. In order to screen for stably expressed shRNA or infected viral cell lines, it is important to determine the lowest concentration of puromycin that kills untransfected/infected cells. For first-time use of cells, it is generally necessary to experimentally determine the appropriate dose response curve for your experimental system.

(1) Day 1: 24-well plates are inoculated with cells at a density of 5~8x10^4 cells/well, and inoculate sufficient wells for subsequent dose gradient experiments. Incubate overnight in a cell incubator.

(2) Day 2: Cells are replaced in the overnight culture with freshly prepared screening medium containing different concentrations of puromycin (e.g. 0, 1, 2.5, 5, 7.5, 10 μg/ml, etc.), and continue incubation in the cell incubator after replacing the medium.

(3) After day 3: Because puromycin acts rapidly on cells, it generally kills 99% of cells that do not express the pac gene within 2 days. Therefore, the observation of cell survival rate can be performed 1-2 days after the addition of puromycin to determine the minimum concentration of the drug that effectively kills normal cells. If the cells are more resistant, daily observation is required and the minimum concentration of puromycin is usually determined within 4-10 days.

2. Screening of mammalian stable expression cell lines:

Stable expression strains can be screened after transfection with plasmids containing the pac gene or infection with viruses containing the gene.

(1) After 48h of cell transfection or infection, the cells are cultured in fresh medium containing appropriate concentrations of puromycin, which is the treatment group.

Note: The antibiotic effect is most pronounced when the cells are in an active phase of division. The effectiveness of antibiotic production is significantly reduced when the cells are too dense, so it is best to have a cell density of no more than 25%. It is recommended to also make a control group of normal cells. After 48h of transfection or infection, cells can also be digested and re-inoculated if they are too dense. Cells can be newly inoculated and cultured overnight for puromycin screening.

(2) Every 2-3 days, change the medium containing puromycin.

(3) After 7 days of screening, 100% of the normal cells in the control group should be dead and the surviving cells in the treated group are those expressing the pac gene. The cells are then screened for polyclonal or monoclonal cells depending on the purpose of the experiment.

Note: Observe cell growth status daily. The screening of puromycin requires at least 24 h. The screening period for effective concentrations of puromycin is generally 2-10 days.

(4) After the cells can be grown stably, the concentration of puromycin can be halved for subsequent cultures. After obtaining a stably expressed cell line, it is generally recommended to continuously add puromycin and to change the fresh culture medium containing puromycin on 2-3 days.

Note

For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Ampicillin Solution (100mg/mL)

Cat. No.: G4018-10ML

Product Information

Product Name	Cat. No.	Spec.
Ampicillin Solution (100mg/mL)	G4018-10ML	10×1 mL

Product Description

Ampicillin is a β-lactam antibiotic that inhibits bacterial and bactericidal effects by inhibiting the synthesis of bacterial cell walls.

This product is a solution of ampicillin sodium dissolved in distilled water and then filtered and de-bacterized, with a concentration of 100 mg/mL. In molecular biology studies, it is often used to selectively screen bacterial clones that have successfully transformed plasmids for ampicillin resistance genes. The general working concentration is 100 μg/mL, add 100 μL per 100 mL of medium for use. If using for the preparation of ampicillin-resistant LB plates, make sure the LB medium is not hot before adding it.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months.

Product Contents

Component	G4018-10ML
Ampicillin solution (100mg/mL)	10×1 mL
Manual	1 pc

Note

1. Please pay attention to aseptic operation when using to avoid contamination.
2. Thaw at 4°C and mix well before use. Avoid repeated freezing and thawing.
3. For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Kanamycin Sulfate Solution (100mg/mL)

Cat. No.: G4019-10ML

Product Information

Product Name	Cat. No.	Spec.
Kanamycin Sulfate Solution (100mg/mL)	G4019-10ML	10×1 mL

Product Description

Kanamycin sulfate is an aminoglycoside antibiotic that inhibits gram-positive and negative bacteria and mycoplasma. The mechanism of effect is targeted binding to the bacterial 70S ribosomal subunit, thereby inhibiting ribosomal translocation and causing misencoding to further interfere with protein synthesis.

This product is a solution of Kanamycin sulfate dissolved in distilled water and then filtered and de-bacterized, with a concentration of 100 mg/mL. In molecular biology studies, it is commonly used to selectively screen bacterial clones for successful transformation of kana resistance gene plasmids. The general working concentration is 50-100 μg/mL, add 50-100 μL per 100 mL of medium for use. If using for the preparation of ampicillin-resistant LB plates, make sure the LB medium is not hot before adding it. It is also commonly used in Agrobacterium-mediated transformation experiments to selectively screen plant tissues carrying the npt II (APH3) gene.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months.

Product Contents

Component	G4019-10ML
Kanamycin sulfate solution (100mg/mL)	10×1 mL
Manual	1 pc

Note

1. Please pay attention to aseptic operation when using to avoid contamination.
2. Thaw at 4°C and mix well before use. Avoid repeated freezing and thawing.
3. For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Amphotericin B

Cat. No.: G4023

Product Information

Product Name	Cat. No.	Spec.
Amphotericin B	G4023-1ML	1 ml

Product Description/Introduction

Amphotericin B is a polyene antifungal agent produced by Streptomyces nodosus. It inhibits fungal growth by increasing the permeability of fungal cell membranes. It is primarily used to prevent contamination of cell cultures with yeasts and fungi. This product is a 2.5 mg/mL solution of Amphotericin B. The solvent is DMSO, and it can be used directly by dilution with culture medium. The commonly used working concentration is 0.25-2.5 μg/mL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃ away from light for 12 months.

Servicebio® G418 Sulfate Solution (50mg/mL)

Cat. No.: G4024-5ML

Product Information

Product Name	Cat. No.	Spec.
G418 Sulfate Solution (50mg/mL)	G4024-5ML	5×1 mL

Product Description

G418 Sulfate, also known as Geneticin, G418, G 418 or G-418, is an aminoglycoside antibiotic with a structure similar to Gentamycin B1. Derived from *Micromonospora rhodorangea* and commonly used to screen for eukaryotic or prokaryotic polyclonal or monoclonal cells expressing the neo genes. G418 is used not only for the screening of stable cell lines, but also for the maintenance of stable cell lines.

In bacteria, yeast, protozoa, worms, higher plants and mammals, genomycin inhibits or kills cells by inhibiting protein synthesis. The mechanism of action is that genomycin binds to the 70S and 80S ribosomes, thereby blocking peptide chain extension and interfering with protein synthesis. Its resistance genes (mainly neo genes) are located in transposons Tn601 (903) or Tn5 (of bacterial origin) and can be expressed in eukaryotic cells. Introducing these resistance genes into cells by recombinant genetic techniques, the causing the cells to express the resistance product amino-glycoside 3'-phosphotransferase (APH(3)II), thereby acquiring resistance to G418 for the screening and maintenance of prokaryotic or eukaryotic cells carrying the resistance gene.

This product is a 50 mg/mL solution that has been filtered and de-bacterized and can be used directly in cell culture. Commonly used working concentration is 100-500 μg/mL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months.

Product Contents

Component	G4024-5ML
G418 Sulfate Solution (50mg/mL)	5×1 mL
Manual	1 pc

Note

1. Please pay attention to aseptic operation when using to avoid contamination.
2. Do not use G418 with other antibiotics/antifungals (e.g. penicillin/streptomycin), since they are competitive inhibitors of G418. Other antibiotics can also be cross reactivity.
3. Thaw at 4°C and mix well before use. Avoid repeated freezing and thawing.
4. For your safety and health, please wear safety glasses, gloves and protective clothing.

Servicebio® Water bath Bacteriostatic (1000×)

Cat. No.: G4026

Product Information

Product Name	Cat. No.	Spec.
Water bath Bacteriostatic (1000×)	G4026	100 mL

Product Description/Introduction

Cell experiments have high requirements for the cleanliness of the laboratory, and the water bath is commonly used for reagent preheating, cell recovery, etc.. Keeping a relatively clean water environment in the water bath can effectively avoid potential contamination of cells.

This product has a broad-spectrum, efficient inhibition and removal of bacteria, fungi, yeast and other microorganisms. It is mainly composed of two effective antibacterial components, which can not only change the permeability of bacterial cell serous membrane, make bacterial cytoplasmic substances permeate, hinder their metabolism and thus play a antibacterial role, but also inhibit the key enzymes in microbial metabolism, thus inhibiting microbial growth and promoting microbial death. In addition, the product has stable performance, very low toxicity in the recommended concentration, safe dumping, and can replace the traditional antibacterial agents such as copper sulfate that are easy to corrode the surface of the water bath.At low doses, it has a good antibacterial effect and a long duration, which can effectively keep the water bath clean and avoid cross contamination.

Storage and Shipping Conditions

Ship at room temperature; Store at room temperature away from light for 24 months.

Product Content

Component	G4026
Water bath Bacteriostatic (1000×)	100 mL
Manual	1 pc

Assay Protocol / Procedures

1. For the first time, it is recommended to wipe the water bath clean with 75% alcohol (optional);
2. Add the water bath bacteriostat (1000 x) to the water bath at a ratio of 1:1000 and mix well (for better bacteriostatic effect, it is recommended to use sterilized pure water for the water bath);
3. Antibacterial effect can be up to 2-3 weeks or even longer. It is recommended to clean the water bath regularly and change the water used in the water bath

Note

1. Gently shake the reagent before use to ensure that each component is uniform.
2. Avoid direct contact with skin and eyes, once contacted, wash immediately with plenty of water.
3. For your health and safety, please wear lab coat and gloves during operation.

Servicebio® Cell incubator water Bacteriostatic (1000×)

Cat. No.: G4027

Product Information

Product Name	Cat. No.	Spec.
Cell incubator water Bacteriostatic (1000×)	G4027	100 mL

Product Description/Introduction

Cell experiments have high requirements for the cleanliness of the laboratory, and the water tray in the cell incubator or its own water tank is easy to breed bacteria, fungi and other microorganisms in the daily use process, which will affect the daily cell culture. Therefore, maintaining a relatively clean incubator environment is very important for the smooth culture of cells.

This product has a broad-spectrum, efficient inhibition and removal of bacteria, fungi, yeast and other microorganisms. It is mainly composed of two effective antibacterial components, which can not only change the permeability of bacterial cell serous membrane, make bacterial cytoplasmic substances permeate, hinder their metabolism and thus play a antibacterial role, but also inhibit the key enzymes in microbial metabolism, thus inhibiting microbial growth and promoting microbial death. In addition, the product has stable performance, very low toxicity in the recommended concentration, safe dumping, and can replace the traditional antibacterial agents such as copper sulfate that are easy to corrode the surface of the cell incubator.At low doses, it has a good antibacterial effect and a long duration, which can effectively keep the cell incubator clean and avoid cross contamination.

Storage and Shipping Conditions

Ship at room temperature; Store at room temperature away from light for 24 months.

Product Content

Component	G4027
Cell incubator water Bacteriostatic (1000×)	100 mL
Manual	1 pc

Assay Protocol / Procedures

1. For the first time, it is recommended to wipe the incubator water tray or the water storage container with 75% ethanol (optional);
2. Add the cell culture incubator water bacteriostat (1000×) to the incubator at a ratio of 1:1000 and mix well (for better bacteriostatic effect, it is recommended to use sterilized pure water for the incubator water);
3. Antibacterial effect can be up to 2-3 weeks or even longer. It is recommended to clean the cell culture incubator regularly and change the water used in the cell culture incubator.

Note

1. Gently shake the reagent before use to ensure that each component is uniform.
2. Avoid direct contact with skin and eyes, once contacted, wash immediately with plenty of water.
3. For your health and safety, please wear lab coat and gloves during operation.

Servicebio® ITS-G Medium Supplement (100×)

Cat. No.: G4028

Product Information

Product Name	Cat. No.	Spec.
ITS-G Medium Supplement (100×)	G4028-10ML	10 mL

Product Description/Introduction

ITS-G Medium Supplement (100×) is a mixture of human recombinant insulin, human transferrin, and sodium selenite.Insulin promotes intracellular transport, glucose and amino acid uptake, fat formation, and protein and nucleic acid synthesis;Transferrin is involved in extracellular iron transport and storage, reducing the toxic levels of oxygen free radicals and peroxides, and maintaining cell proliferation.Selenium (sodium selenite) is a cofactor of glutathione peroxidase and other proteins and is used as an antioxidant in media.ITS-G medium supplements are often added to the medium as a cell culture nutritional supplement to reduce the amount of fetal bovine serum required for cell culture.

Storage and Shipping Conditions

Ship with wet ice; Store at 2-8℃ for 12 months.

Product Content

Component	G4028-10ML
ITS-G Medium Supplement (100×)	10 mL
Manual	1 pc

Note

1. This product is sterile and should be operated aseptically during use to avoid contamination.
2. This product is 100× concentrated liquid, due to different cell characteristics, the use ratio can be adjusted according to needs.
3. A sudden reduction in serum use may cause some cells to appear uncomfortable, and it is possible to try to domesticate the cells by gradually reducing the serum.
4. For your health and safety, please wear lab coat and gloves during operation.

Servicebio® Anti-Clumping Agent

Cat. #: G4105-100 ML

Product Information

Product Name	Cat. No.	Spec.
Anti-Clumping Agent	G 4105-100 ML	100 mL

Product Description/Introduction

Most expression cell lines are domesticated to adapt to serum-free (low) and suspension culture to achieve higher cell density and increase expression yield. However, before and after domestication and in high-density suspension culture, cells often adhere to each other and clump together. Small-scale cell clusters do not affect cell growth at the beginning, but as the clusters become larger, the inner cells will be undernourished and die. The content released by the dead cells will affect the overall cell growth, leading to a larger scale of death and clumping.

This reagent is a chemically defined, protein-free and concentrated liquid reagent without any hydrolysis products, consisting of two main components: dispersant and anti-shear protectant. It provides good protection against shear while reducing intercellular adhesion and significantly improving cell clumping, resulting in a higher density of viable cells.

Storage and Shipping Conditions

Ship with wet ice; Store at 2-8°C away from light, valid for 12 months.

Product Components

Component	G 4105-100ML
Anti-Clumping Agent	100 mL
Manual	1

Assay Protocol/Procedures

Attention: The following protocol is for the addition of conventional exchange solutions, which can also be added directly to the cultured cells during use. The addition volume is the same as the following volume ratio.

1. Add the cell anti-clumping agent to the corresponding cell culture medium, with the addition volume accounting for 2% of the total volume (the amount of anti-clumping reagent required varies under different conditions, usually between 1-4%, 2% is recommended and may be adjusted.
2. Transfer the suspended cells into a centrifuge tube, centrifuge at 800 x g for 3-5 min, remove the original culture medium, and keep the cell precipitate.
3. Resuspend cells with the working solution containing the cellular anti-colonisation reagent and transfer to the appropriate culture dishes or flasks for incubation.

Note

1. This product is suitable for the domestication of suspension cell system under shaking bed culture conditions, and may not be effective for suspension cells in regular resting conditions.
2. Due to the different properties of different cells, the concentration range described in step is for reference only and can be adjusted according to specific conditions.
3. This product will affect cell transfection, it is recommended to replace it with a normal culture medium without this product before transfection incubation. Add at the time of fluid change after the transfection incubation is complete and does not affect post-transfection expression.
4. For your health and safety, please wear laboratory clothes and gloves when operating.

Servicebio® HEPES solution (1 M)

Cat. #： G4210-100ML

Product Information

Product Name	Cat. No.	Spec.
HEPES solution (1 M)	G4210-100ML	100 mL

Product Description/Introduction

HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) is a zwitterionic organic chemical buffering agent commonly used in cell culture media with an effective buffer range of pH 6.8-8.2. HEPES is a good buffering choice for many cell culture systems because it is membrane impermeable, has limited effect on biochemical reactions, is chemically and enzymatically stable, and has very low visible and UV light absorbance.

This product is prepared with ultra-pure water with a concentration of 1 M and a pH of 7.0-7.5. After 0.22 μm filtration, it can be directly used for cell culture. The recommended working concentration in cell culture is 10-25 mM, adding proportionally as needed. For example, if the required working concentration is 10 mM, add 1 mL of this product to every 100 mL of medium.

Storage and Shipping Conditions

Ship with wet ice; Store in the dark at 4℃; Store at -20℃ for long-term; Avoid repeated freeze-thaw. valid for 24 months.

Product Component

Component Number	Component	G4210-100ML
G4210	HEPES solution (1 M)	100 mL

Note

1. This product has been filtered to remove bacteria. Please pay attention to aseptic operation to avoid contamination.
2. This product is only used for scientific research, not for diagnosis and treatment.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® L-Glutamine (200mM)

Cat. No.: G4211

Product Information

Product Name	Cat. No.	Spec.
L-Glutamine (200mM)	G4211-100ML	100 mL

Product Description/Introduction

L-Glutamine is an essential nutrient for cell culture, a source of cell growth capacity, and is also involved in protein synthesis and nucleic acid metabolism. L-Glutamine deficiency can lead to poor cell growth and even death. L-Glutamine is unstable in solution and is prone to spontaneous degradation with time, temperature, pH, etc. When the cells show poor growth, the culture medium can be supplemented with a certain L-Glutamine to meet the needs of cell growth.

Storage and Shipping Conditions

Ship with wet ice; Store at 2-8℃, valid for 24 months. It is recommended to divide into smaller portions and store at -20℃.

Product Contents

Component	G4211-100ML
L-Glutamine (200mM)	100 mL
Manual	1 pc

Assay Protocol / Procedures

This product is a 200 mM stock solution with 0.85% NaCl as solvent and is filtered and sterilized by 0.22 μm filter membrane. The recommended working concentration in the culture medium is 1-4 mM, the amount of addition varies according to the needs of the cells, add to the culture medium in proportion.For example, if the desired final concentration in the medium is 2 mM, add 1 mL of this product per 100 mL of medium.

Note

1. This product is filtered and sterilized by 0.22 μm filter membrane, need aseptic operation when using to avoid contamination.
2. This product is a 200 mM concentrate, please dilute as needed.
3. Thaw in 2-8℃, shake well and use. Avoid repeated freezing and thawing, recommend freezing and storing after dispensing.
4. For your safety and health, please wear safety glasses, gloves or protective clothing.

Servicebio® Sodium pyruvate (100 mM)

Cat.#：G4212

Product information

product name	Identification of product	model
Sodium pyruvate (100 mM)	G4212-100ML	100 mL

Descirption/Introduction

Sodium pyruvate is commonly added to cell culture media as a carbon source in addition to glucose. Since cells make sodium pyruvate as an intermediate metabolite in the glycolysis pathway, it is not a required supplement for all cell cultures. However, if cells have been grown in medium that is supplemented with sodium pyruvate, we recommend continuing use of the supplement as cell growth may lag without it.

This product is a ready-to-use 100 mM stock solution that acts as a cell culture complement. The optimal concentration used in most cell culture media is 1-4 mM.

Storage and Handling Conditions

Storage conditions: 2-8℃, protect from light

Shipping conditions: room temperature.

Shelf life: 12 months from date of manufacture

Servicebio® MEM NEAA (100×)

Cat. #： G4219-100ML

Product Information

Product Name	Cat. No.	Spec.
MEM NEAA (100×)	G4219-100ML	100 mL

Product Description/Introduction

Eagle's Minimum Essential Medium (MEM) is a synthetic medium containing inorganic salts, essential amino acids, vitamins and other essential components for cell growth. MEM can also add additional non-essential amino acids to stimulate cell growth, prolong cell dynamics, and reduce the biosynthetic burden of cells. NEAA stands for Non-Essential Amino Acid. This product is a 100 x concentrate of the non-essential amino acid mixture required in MEM medium. These non-essential amino acids include L-alanine, L-aspartic acid, L-asparagine, glycine, L-serine, L-proline, and L-glutamate. The concentration of each amino acid in this product is 10 mM and is used at a dilution of 100:1, that is, add 1 mL per 100 mL of medium, or add the concentration actually required.

Storage and Shipping Conditions

Ship with wet ice; Store at 2-8℃; Valid for 12 months.

Product Component

Component Number	Component	Spec.
G4219	MEM NEAA (100×)	100 mL

Note

1. This product is filtered by 0.1 μm to remove bacteria. Please pay attention to aseptic operation to avoid contamination.
2. The solution of this product is acidic, pay attention to the change of pH value of the medium after addition and fine-tune the pH value of the medium according to the experimental requirements.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Servicebio® L-alanyl-I-glutamine Additive (200 mM, 100×)

Cat. #: G4565-100ML

Product Information

Product Name	Cat. No.	Spec.
L-alanyl-I-glutamine Additive (200 mM, 100×)	G4565-100ML	100 mL

Product Description

L-glutamine is an important nutrient in cell culture as it provides energy for cultured cells and is involved in protein synthesis and nucleic acid metabolism. However, L-glutamine is unstable in solution and degrades spontaneously and more rapidly at higher temperatures.

L- alanyl -L- glutamine, also known as alanyl-glutamine, alanine-glutamine. It can be hydrolyzed by peptidase released into the culture medium during cell culture. The hydrolyzed L- alanyl -L- glutamine products are L- alanyl and L- glutamine which can be absorbed and utilized by cells. Therefore, L- alanyl -L- glutamine is a dipeptide substitute for L- glutamine. which is easily soluble in aqueous solution, and has good stability of aqueous solution, which can be fully utilized by cells. As a substitute for L- glutamine, little or no adaptation can be achieved. This product is 200 mM L- alanyl -L- glutamine additive, which has been strictly tested for mycoplasma and bacteria.

Storage and Shipping Conditions

Ship at room temperature; Store at 2-8℃ away from light for 24 months.

Product Component

Component	G4565-100ML
L-alanyl-I-glutamine Additive (200 mM, 100×)	100 mL

Note

1. The recommended working concentration of this product is 2 mM, which can also be adjusted according to the actual demand.
2. Please pay attention to aseptic operation to avoid product contamination.

Servicebio® Pure Water, Laboratory Use Only

Cat. #.: G4701-500ML

Product Information

Product Name	Cat. No.	Spec.
Pure Water, Laboratory Use Only	G4701-500ML	500 mL

Product Description/Introduction

This product is pure water prepared by EDI and distillation, sterilized by 0.1μm filter membrane. The electrical conductivity is less than 5.0 μs/cm, and the endotoxin is less than 0.25 EU/mL. It can be used for Cell experiments, molecular experiments, WB, IHC and other biological experiments.

Storage and Shipping Conditions

Ship and store at room temperature, valid for 36 months.

Note

1. The product is filtered and sterilized by 0.1μm filter membrane and can be used directly. Please pay attention to aseptic operation during use to avoid contamination.
2. For your safety and health, please wear safety glasses, gloves, or protective clothing.

По вопросам продаж и поддержки обращайтесь:

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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

эл.почта: sih@nt-rt.ru || сайт: https://servicebio.nt-rt.ru/