



Cell Culture Reagents

Liquid media

Quality control items : pH, Osmotic pressure, Sterility test, Endotoxin test, Mycoplasma test

Composition summary

Media name	Product No.	Glucose	L-Gln	Phenol Red	HEPES	Sodium Pyruvate	Others	Animal-Free*
DMEM	08459	High	○	○	—	—		○
	08458		○	○	—	○		○
	11584		—	○	—	○		○
	08457		○	○	○	—		○
	11585		—	○	○	—		○
	08488		—	○	—	—		○
	08489		—	—	—	—		○
	16971		○	○	—	○	with 1,500 mg/L sodium hydrogen carbonate	○
	16972	—	○	—	—	without calcium	○	
	08456	Low	○	○	—	○		○
	08490		—	—	—	○		○
	09891	No	○	○	—	—		○
DMEM/Ham's F-12	11581	○	○	○	—	○		○
	08460	○	○	○	○	○		○
	11583	○	—	○	○	○		○
	05177	○	○	—	○	○		○
	11582	○	○	—	—	○		○
	09893	No	○	○	—	○		○
Ham's F-12	17458	○	○	○	—	○		○
G-MEM	12965	○	○	○	—	—		○
MEM	21442	○	○	○	—	—		○
	21443	○	○	○	—	—	with non-essential amino acids	○
	09848	No	○	○	—	—	with non-essential amino acids	○
α-MEM	21445	○	○	○	—	○		○
	21444	○	○	○	—	○	with nucleosides	○
IMDM	11506	○	○	○	○	○		○
RPMI 1640	30264	○	○	○	—	—		○
	30263	○	○	○	○	—		○
	05176	○	—	○	—	—		○
	06261	○	○	—	—	—		○
	16970	○	○	○	○	○	with 4,500 mg/L glucose	○
	09892	No	○	○	—	—		○

*Animal-Free: No materials of animal origin are used in the raw materials or manufacturing process.

For detailed composition, please see our web site.
You can also search our online catalog e-Nacalai Search Version (<http://e-nacalai.jp>)

Liquid media

Product Name	Grade	Storage	Product No.	PKG size
DMEM(4.5g/l Glucose) with L-Gln, without Sodium Pyruvate, liquid	SP (For TC)	R	08459-35	500 mL
			08459-64	10 X 500 mL
DMEM(4.5g/l Glucose) with L-Gln and Sodium Pyruvate, liquid	SP (For TC)	R	08458-45	500 mL
			08458-16	10 X 500 mL
DMEM(4.5g/l Glucose) with Sodium Pyruvate, without L-Gln, liquid	SP (For TC)	R	11584-85	500 mL
DMEM(4.5g/l Glucose) with L-Gln and HEPES, without Sodium Pyruvate, liquid	SP (For TC)	R	08457-55	500 mL
DMEM(4.5g/l Glucose) with HEPES, without L-Gln and Sodium Pyruvate, liquid	SP (For TC)	R	11585-75	500 mL
DMEM(4.5g/l Glucose) without L-Gln and Sodium Pyruvate, liquid	SP (For TC)	R	08488-55	500 mL
DMEM(4.5g/l Glucose) without L-Gln, Sodium Pyruvate and Phenol Red, liquid	SP (For TC)	R	08489-45	500 mL
DMEM(4.5g/l Glucose) with L-Gln, Sodium Pyruvate and 1.5g/l Sodium Hydrogen Carbonate, liquid	SP (For TC)	R	16971-55	500 mL
DMEM(4.5g/l Glucose) Calcium free without L-Gln and Sodium Pyruvate, liquid	SP (For TC)	R	16972-45	500 mL
DMEM(1.0g/l Glucose) with L-Gln and Sodium Pyruvate, liquid	SP (For TC)	R	08456-65	500 mL
			08456-36	10 X 500 mL
DMEM(1.0g/l Glucose) with Sodium Pyruvate, without L-Gln and Phenol Red, liquid	SP (For TC)	R	08490-05	500 mL
DMEM(No Glucose) with L-Gln, without Sodium Pyruvate, liquid	SP (For TC)	R	09891-25	500 mL
DMEM/Ham's F-12 with L-Gln and Sodium Pyruvate, without HEPES, liquid	SP (For TC)	R	11581-15	500 mL
DMEM/Ham's F-12 with L-Gln, Sodium Pyruvate and HEPES, liquid	SP (For TC)	R	08460-95	500 mL
DMEM/Ham's F-12 with Sodium Pyruvate and HEPES, without L-Gln, liquid	SP (For TC)	R	11583-95	500 mL
DMEM/Ham's F-12 with L-Gln, Sodium Pyruvate and HEPES, without Phenol Red, liquid	SP (For TC)	R	05177-15	500 mL
DMEM/Ham's F-12 with L-Gln and Sodium Pyruvate, without HEPES and Phenol Red, liquid	SP (For TC)	R	11582-05	500 mL
DMEM/Ham's F-12(No Glucose) with L-Gln and Sodium Pyruvate, liquid	SP (For TC)	R	09893-05	500 mL
Ham's F-12 with L-Gln, liquid	SP (For TC)	R	17458-65	500 mL
G-MEM with L-Gln, liquid	SP (For TC)	R	12965-65	500 mL
MEM with Earle's Salts and L-Gln, liquid	SP (For TC)	R	21442-25	500 mL
MEM with Earle's Salts, L-Gln and Non-Essential Amino Acids, liquid	SP (For TC)	R	21443-15	500 mL
MEM(No Glucose) with Earle's Salts, L-Gln and Non-Essential Amino Acids, liquid	SP (For TC)	R	09848-05	500 mL
α -MEM with L-Gln, without Ribonucleosides and Deoxyribonucleosides, liquid	SP (For TC)	R	21445-95	500 mL
α -MEM with L-Gln, Ribonucleosides and Deoxyribonucleosides, liquid	SP (For TC)	R	21444-05	500 mL
IMDM with L-Gln and HEPES, liquid	SP (For TC)	R	11506-05	500 mL
RPMI 1640 with L-Gln, liquid	SP (For TC)	R	30264-85	500 mL
			30264-56	10 X 500 mL
RPMI 1640 with L-Gln and HEPES, liquid	SP (For TC)	R	30263-95	500 mL
RPMI 1640 without L-Gln, liquid	SP (For TC)	R	05176-25	500 mL
RPMI 1640 with L-Gln, without Phenol Red, liquid	SP (For TC)	R	06261-65	500 mL
RPMI 1640(4.5g/l Glucose) with L-Gln, Sodium Pyruvate and HEPES	SP (For TC)	R	16970-65	500 mL
RPMI 1640(No Glucose) with L-Gln, liquid	SP (For TC)	R	09892-15	500 mL

For more information on custom cell culture media, refer to page 8.

Balanced salt solutions

Quality control items : pH, Osmotic pressure, Sterility test, Endotoxin test, Mycoplasma test

Product Name	KCl	Ca · Mg	Phenol Red	Product No.	PKG size	Animal-Free*
D-PBS(-) without Ca and Mg, liquid	○	—	—	14249-95	500 mL	○
				14249-24	10 X 500 mL	○
D-PBS(-) without Ca and Mg, liquid(10x)	○	—	—	11482-15	500 mL	○
D-PBS without Ca and Mg, Powder	○	—	—	07269-84	100 g	○
Phosphate Buffered Saline without KCl(pH 7.2)	—	—	—	11480-35	500 mL	○
Phosphate Buffered Saline without KCl(10x)(pH 7.2)	—	—	—	11481-25	500 mL	○
Phosphate Buffered Saline without KCl(pH 7.4)	—	—	—	13397-85	500 mL	○
D-PBS(+)Preparation Reagent(Ca, Mg Solution)(100x)	—	○	—	02492-94	30 mL	○
HBSS(+) with Ca, Mg and Phenol Red, liquid	○	○	○	17459-55	500 mL	○
HBSS(+) with Ca, Mg, without Phenol Red, liquid	○	○	—	09735-75	500 mL	○
HBSS(-) without Ca and Mg, with Phenol Red, liquid	○	—	○	17460-15	500 mL	○
HBSS(-) without Ca, Mg and Phenol Red, liquid	○	—	—	17461-05	500 mL	○

Sterile water

Quality control items : Sterility test, Endotoxin test, Nuclease test, Protease test

Product Name	Grade	Product No.	PKG size
Water deionized & sterilized	SP (For molecular biology)	06442-95	500 mL

Media additives

Product Name	Grade	Storage	Product No.	PKG size	Animal-Free*
Solutions					
200mmol/l L-Alanyl-L-glutamine Solution(100x)	SP (For TC)	F	04260-64	100 mL	○
200mM-L-Glutamine Stock Solution	SP (For TC)	F	16948-04	100 mL	○
0.1mol/l-Calcium Chloride Solution	SP (For TC)	RT	16973-64	20 mL	○
45(w/v)%-D-(+)-Glucose Solution	SP (For TC)	RT	16974-54	100 mL	○
1mol/l-HEPES Buffer Solution	SP (For TC)	R	17557-94	100 mL	○
MEM Non-Essential Amino Acids Solution(100x)	SP (For TC)	R	06344-14	20 mL	○
			06344-56	100 mL	○
100mM-Sodium Pyruvate Solution(100x)	SP (For TC)	R	06977-34	100 mL	○
Amino Acids					
L- α -Alanine, Animal-Free	SP (For TC)	RT	12998-32	25 g	○
L-Alanyl-L-glutamine, Animal-Free	SP (For TC)	R	18189-52	25 g	○
L-Arginine, Animal-Free	SP (For TC)	RT	11984-32	25 g	○
			11984-45	500 g	
L-(+)-Arginine Monohydrochloride, Animal-Free	SP (For TC)	RT	12999-22	25 g	○
L-Asparagine Monohydrate, Animal-Free	SP (For TC)	RT	13000-42	25 g	○
L-Aspartic Acid, Animal-Free	SP (For TC)	RT	13002-22	25 g	○
L-Cysteine Hydrochloride Monohydrate, Animal-Free	SP (For TC)	R	11983-42	25 g	○
			11983-55	500 g	
L-Cystine Dihydrochloride, Animal-Free	SP (For TC)	RT	13003-12	25 g	○
L-Glutamic Acid, Animal-Free	SP (For TC)	RT	13012-92	25 g	○

Media additives

Product Name	Grade	Storage	Product No.	PKG size	Animal-Free*
Amino Acids					
L-Glutamine, Animal-Free	SP (For TC)	RT	13004-02	25 g	○
			13004-15	500 g	
Glycine, Animal-Free	SP (For TC)	RT	12997-42	25 g	○
L-Histidine(free base), Animal-Free	SP (For TC)	RT	13014-72	25 g	○
L-Histidine Monohydrochloride Monohydrate, Animal-Free	SP (For TC)	RT	13017-42	25 g	○
L-Hydroxyproline, Animal-Free	SP (For TC)	RT	13018-32	25 g	○
L-(+)-Isoleucine, Animal-Free	SP (For TC)	RT	13035-02	25 g	○
L-Leucine, Animal-Free	SP (For TC)	RT	13036-92	25 g	○
L-Lysine Monohydrochloride, Animal-Free	SP (For TC)	RT	13037-82	25 g	○
L-Methionine, Animal-Free	SP (For TC)	RT	13038-72	25 g	○
L-(-)-Phenylalanine, Animal-Free	SP (For TC)	RT	13039-62	25 g	○
L-(-)-Proline, Animal-Free	SP (For TC)	RT	13040-22	25 g	○
L-Serine, Animal-Free	SP (For TC)	RT	13041-12	25 g	○
L-Threonine, Animal-Free	SP (For TC)	RT	13042-02	25 g	○
L-Tryptophan, Animal-Free	SP (For TC)	RT	13043-92	25 g	○
L-Tyrosine Disodium Salt Dihydrate, Animal-Free	SP (For TC)	R	11985-22	25 g	○
			11985-35	500 g	
L-Valine, Animal-Free	SP (For TC)	RT	13046-62	25 g	○
Vitamins					
<i>p</i> -Aminobenzoic Acid, Animal-Free	SP (For TC)	RT	13047-52	25 g	○
L(+)-Ascorbic Acid, Animal-Free	SP (For TC)	RT	13048-42	25 g	○
D-Biotin, Animal-Free	SP (For TC)	RT	13049-61	1 g	○
Choline Chloride, Animal-Free	SP (For TC)	R	13050-34	5 g	○
<i>myo</i> -Inositol, Animal-Free	SP (For TC)	RT	13051-82	25 g	○
Pyridoxine Hydrochloride, Animal-Free	SP (For TC)	RT	13053-04	5 g	○
Vitamin B ₁ Hydrochloride, Animal-Free	SP (For TC)	RT	13052-14	5 g	○
Vitamin B ₁₂ , Animal-Free	SP (For TC)	R	13054-94	100 mg	○
Low Molecular Compounds					
17 β -Estradiol, Animal-Free	SP (For biochemical research)	R	18192-92	25 mg	○
IWP-2, Animal-Free	SP (For biochemical research)	R	18175-64	5 mg	○
SB 431542, Animal-Free	SP (For biochemical research)	RT	18176-54	5 mg	○
10mmol/L-Y-27632 Solution	SP (For TC)	F	18190-96	100 μ L	○
			18190-54	1.5 mL	
Y-27632	SP (For biochemical research)	F	08945-71	1 mg	—
			08945-84	5 mg	
			08945-42	25 mg	
Y-27632, Animal-Free	SP (For TC)	F	18188-04	10 mg	○
Recombinant Proteins					
Albumin, Human, Recombinant expressed in Rice, Animal-Free	SP (For TC)	R	12880-81	1 g	○
			12880-94	5 g	
			12880-52	25 g	
Insulin, Human, Recombinant expressed in Yeast, Animal-Free	SP (For TC)	F	12878-86	50 mg	○
			12878-44	250 mg	

Media additives

Product Name	Grade	Storage	Product No.	PKG size	Animal-Free*
Recombinant Proteins					
Transferrin, Human, Recombinant expressed in Rice, Animal-Free	SP (For TC)	R	12879-34	100 mg	○
			12879-05	500 mg	
			12879-21	1 g	
Recombinant Human LIF	Nacalai USA	R	NU0013-1	1 mL(10 ⁶ units/mL)	—
			NU0013-2	1 mL (0.5 X 10 ⁷ units/mL)	
Recombinant Mouse LIF	Nacalai USA	R	NU0012-1	1 mL(10 ⁶ units/mL)	—
			NU0012-2	1 mL(10 ⁷ units/mL)	
Proteins					
<i>apo</i> -Transferrin from Human	SP (For TC)	R	34401-84	100 mg	—
			34401-55	500 mg	
Albumin, Bovine Serum, Low Endotoxin, pH5.2	BC (Biochemicals Grade)	R	01861-84	10 g	—
			01861-97	100 g	
Albumin, Bovine Serum, Fatty Acid Free, pH7.0	BC (Biochemicals Grade)	R	08587-26	10 g	—
			08587-42	25 g	
			08587-84	50 g	
Others					
D-(+)-Glucose, Animal-Free	SP (For TC)	RT	13057-35	500 g	○
Glutathione(Reduced Form), free acid, Animal-Free	SP (For TC)	R	13056-61	1 g	○
Hypoxanthine, Animal-Free	SP (For TC)	RT	13055-71	1 g	○
Sodium Pyruvate, Animal-Free	SP (For TC)	R	13058-12	25 g	○
Dimethyl Sulfoxide	SP (For TC)	RT	13408-64	5 X 5 mL	○
Ethanol(99.5)	SP (Biotechnology grade)	RT	09666-85	500 mL	—
Sodium Selenite	SP (Biotechnology grade)	RT	11707-04	5 g	—

Reagents for cell dissociation

Quality control items : pH, Sterility test, Mycoplasma test, Enzyme activity(USP unit)

Product Name	Phenol Red	Buffer	Grade	Storage	Product No.	PKG size
0.5g/l-Trypsin/0.53mmol/l-EDTA Solution	×	HBSS(-)	SP (For TC)	F	35553-74	100 mL
0.5g/l-Trypsin/0.53mmol/l-EDTA Solution, with Phenol Red	○	HBSS(-)	SP (For TC)	F	32778-34	100 mL
					32778-05	500 mL
2.5g/l-Trypsin/1mmol/l-EDTA Solution	×	HBSS(-)	SP (For TC)	F	35554-64	100 mL
2.5g/l-Trypsin/1mmol/l-EDTA Solution, with Phenol Red	○	HBSS(-)	SP (For TC)	F	32777-44	100 mL
					32777-15	500 mL
5.0g/l-Trypsin/5.3mmol/l-EDTA Solution	×	HBSS(-)	SP (For TC)	F	35556-44	100 mL
2.5g/l-Trypsin Solution	×	HBSS(-)	SP (For TC)	F	35555-54	100 mL
25g/l-Trypsin Solution	×	Saline	SP (For TC)	F	18172-94	100 mL
0.2g/l-EDTA Solution	×	PBS(-)	SP (For TC)	R	14367-74	100 mL
0.5mmol/l-EDTA/PBS Solution	×	PBS(-)	SP (For TC)	RT	13567-84	100 mL
Accutase™	○	PBS(-)	SP (For TC)	F	12679-54	100 mL
Accumax™	×	PBS(-)	SP (For TC)	F	17087-54	100 mL

Reagents for cell cryopreservation

Product Name	Grade	Storage	Product No.	PKG size
Cell Count Reagent SF	SP (Reagents for cell cryopreservation)	R	07553-15	500 tests
			07553-44	2,500 tests
LDH Cytotoxicity Assay Kit	SP (Reagents for cell cryopreservation)	F	18250-64	100 tests
			18250-35	500 tests
MTT Cell Count Kit	SP (Reagents for cell cryopreservation)	F	23506-80	1 kit(1,000 tests)
0.5%-Trypan Blue Stain Solution	SP (Reagents for cell cryopreservation)	RT	29853-34	100 mL

Reagents for cell cryopreservation

Product Name	Grade	Storage	Product No.	PKG size
Cell Reservoir One(with DMSO)	SP (For TC)	R	07485-86	10 mL
			07485-44	100 mL
Cell Reservoir One(without DMSO)	SP (For TC)	R	07579-37	10 mL
			07579-24	100 mL
Cell Reservoir One, Vitrify	SP (For TC)	R	11325-62	25 mL
Dimethyl Sulfoxide	SP (For TC)	RT	13408-64	5 X 5 mL
Acetamide	SP (Biotechnology grade)	A	11681-34	5 g
Glycerol	SP (Biotechnology grade)	RT	09886-05	500 mL
Propylene Glycol	SP (Biotechnology grade)	RT	11740-25	500 g

Reagents for apoptosis research

Product Name	Grade	Storage	Product No.	PKG size
Annexin V-633 Apoptosis Detection Kit	SP (For fluorescence analysis)	R	18146-44	100 tests
Annexin V-FITC Apoptosis Detection Kit	SP (For fluorescence analysis)	R	15342-54	100 tests
Actinomycin D Solution(1mg/ml)	SP (For TC)	F	00393-41	1 mL
Colcemid Solution(10 μg/ml)	SP (For TC)	R	09356-74	10 mL
Mitomycin C Solution(1mg/ml)	SP (For TC)	F	20898-21	1 mL

Reagents for alkaline phosphatase staining

Product Name	Grade	Storage	Product No.	PKG size
BCIP-NBT Solution Kit for Alkaline Phosphatase Stain, Nuclease tested	SP (Reagents for alkaline phosphatase staining)	F	03937-60	1 kit
4%-Paraformaldehyde Phosphate Buffer Solution	SP (For histochemistry research)	R	09154-14	5 X 10 mL
			09154-56	100 mL
			09154-85	500 mL

Antibiotics

Product Name	Composition	Application	Grade	Storage	Product No.	PKG size
Actinomycin D Solution(1mg/ml)	1 mg/mL	Other	SP (For TC)	F	00393-41	1 mL
Antibiotic-Antimycotic Mixed Stock Solution(100x)	Penicillin 10,000 u/mL Streptomycin Potency: 10,000 µg/mL Amphotericin B Potency: 25 µg/mL	Bacteria, Fungi, Yeast	SP (For TC)	F	02892-54	100 mL
Antibiotic-Antimycotic Mixed Stock Solution(100x)(Stabilized)			SP (For TC)	F	09366-44	100 mL
G 418 Disulfate	—	Selection Antibiotics	GR	RT	16512-36	250 mg
					16512-81	1 g
					16512-94	5 g
					16512-52	25 g
G 418 Disulfate Aqueous Solution	Potency: 50 mg/mL	Selection Antibiotics	—	R	16513-84	20 mL
					16513-26	100 mL
G 418 Disulfate	—	Selection Antibiotics	SP (For TC)	RT	08973-01	1 g
					08973-14	5 g
G 418 Disulfate Aqueous Solution	Potency: 50 mg/mL	Selection Antibiotics	SP (For TC)	R	09380-86	20 mL
					09380-44	100 mL
Gentamicin Sulfate	—	Bacteria, Mycoplasma	SP (For TC)	R	08975-81	1 g
					08975-94	5 g
Gentamicin Sulfate Solution(10mg/ml)	Potency: 10 mg/mL	Bacteria, Mycoplasma	SP (For TC)	R	16672-04	10 mL
Gentamicin Sulfate Solution(50mg/ml)	Potency: 50 mg/mL		SP (For TC)	R	11980-14	10 mL
Hygromycin B	—	Selection Antibiotics	SP (For biochemical research)	R	07296-66	100 mg
					07296-11	1 g
					07296-24	5 g
Hygromycin B Solution	Potency: 50 mg/mL	Selection Antibiotics	SP (For TC)	R	09287-84	20 mL
Kanamycin Monosulfate	—	Bacteria, Mycoplasma	SP (For TC)	RT	08976-71	1 g
					08976-84	5 g
Kanamycin Sulfate Solution(50mg/ml)	Potency: 50 mg/mL	Bacteria, Mycoplasma	SP (For TC)	R	11981-04	20 mL
Mitomycin C Solution(1mg/ml)	1 mg/mL	Other	SP (For TC)	F	20898-21	1 mL
Penicillin-Streptomycin Mixed Solution	Penicillin 10,000 u/mL Streptomycin Potency: 10,000 µg/mL	Bacteria	SP (For TC)	F	26253-84	100 mL
Penicillin-Streptomycin Mixed Solution (Stabilized)			SP (For TC)	F	09367-34	100 mL
Penicillin-Streptomycin Mixed Solution			SP (For TC)	F	26252-94	100 mL
Penicillin-Streptomycin-Glutamine Mixed Solution			SP (For TC)	F	06168-34	100 mL

Custom cell culture media

Nacalai Tesque has many years of experience in manufacturing media, and we offer custom service for cell culture media according to your personal requirements.

FAQ

Q1. What is custom media?

A1. Product made to order for certain customers.

We will manufacture the media with specified contents such as composition, preparation method, material specification, quality.

In addition, it is also possible to modify existing products by changing composition or specifications.

Q2. Can you set an expiration date?

A2. No, we can not.

In general, the expiration date is set when it is confirmed that there is no change in quality for each test item after a certain period of time has elapsed.

For custom items, it is not possible to set the expiration date because we have not tested the change over time.

If necessary, we can print the production date on the label.

Q3. What kind of inspections are carried out?

A3. If not specified in particular, the inspection of the media will be conducted by standard items (pH, osmotic pressure, sterility test, endotoxin test, mycoplasma test). Please contact us if you have any requires of inspection items.

In addition, it is also possible to issue certificate of analysis based on inspection at the time of preparation. In that case, please specify standard value of inspection item (however, depending on the content, it may be unable to issue certificate of analysis).

Q4. How to place an order?

A4. 5 steps to delivery



Q5. What is the minimum order quantity for liquid media?

A5. • 500 mL : Available from 1 bottle. • Maximum volume for 1 lot is 1,000 L.

Q6. Can powder media also be produced?

A6. Normally, we provide in liquid form. Powdered media is also possible, but it may not be allowed depending on the ingredients (high hygroscopicity, high viscosity, dangerous ingredients, trace amount, etc.).

Production example

We have manufactured many kinds of custom media. Below are some examples.

- DMEM without Amino Acids(double concentration)
- DMEM without Choline Chloride, Methionine
- DMEM without Calcium Chloride, Magnesium Sulfate
- DMEM/F-12 without Linoleic Acid
- RPMI 1640: custom NaCl concentration
- RPMI 1640 without vitamins, and concentrates of each vitamin

Quotation request

For inquiries / quotations for custom culture media, please visit our web site http://www.nacalai.co.jp/global/reagent/custom/Custom_Services.html and fill out request form.

For research use only, not intended for diagnostic or drug use.

