



Shimadzu Diagnostics Corporation

Cell Culture-Related Products

TABLE OF CONTENTS

Powder Media

03	AccuDia™ Eagle's MEM ① AccuDia™ Eagle's MEM ② AccuDia™ Eagle's MEM ③	06	AccuDia™ HBSS ① AccuDia™ HBSS ② AccuDia™ D-PBS (–)
04	AccuDia™ D-MEM ① AccuDia™ D-MEM ②	06 07	Medium 199 AccuDia™ Ham's F-12 Medium AccuDia™ SFM-101
05	AccuDia™ RPMI 1640 Medium ① AccuDia™ RPMI 1640 Medium ②	08	Contract Media Manufacturing Service Culture Medium Component Analysis Service



AccuDia™ Eagle's MEM ①
100 g



AccuDia™ Eagle's MEM ①
1L x 10 Packs



AccuDia™ SFM-101

AccuDia™ Eagle's MEM ①②③

Description

Eagle's MEM medium "AccuDia" ① was prepared following the formulation of MEM published by Harry Eagle in 1959 and widely used for cell culture. Traditionally, this type of medium cannot be sterilized by autoclaving due to degradation and alteration of its components, and has been generally sterilized by filtration using membrane filters. By using a special method, our company has succeeded in producing a powder medium that can be sterilized by autoclaving without damaging any component of the medium and the bacterial growth supporting ability. The medium exhibits excellent growth-promoting effects on HeLa cells, L cells, and other cell lines, as well as on unestablished cells that have been isolated from biological tissues.

Caution

As this product contains 60 mg (potency) of kanamycin sulfate/L, it is not necessary to add antibiotics such as streptomycin or penicillin.

Product Name	AccuDia™ Eagle's MEM ①		AccuDia™ Eagle's MEM ②	AccuDia™ Eagle's MEM ③
CODE	05900	08160	05901	05902
Package	100 g	For 1 L x 10 Packs	100 g	100 g
Product Features	Autoclavable		Autoclavable	Autoclavable
	With Kanamycin and Phenol Red		With Kanamycin	Without Kanamycin, Phenol Red, L-Glutamine and Sodium Bicarbonate
	Without L-Glutamine and Sodium Bicarbonate		Without Phenol Red, L-Glutamine and Sodium Bicarbonate	
Storage	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).		Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).
Expiration Date	1 Year After Manufacture	2 Years for PackProduct	1 Year After Manufacture	1 Year After Manufacture
Usage	• Dissolve 9.4 g of this powder in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL and sterilize the medium solution in an autoclave at 121°C for 15 minutes. • After autoclave sterilization, the medium is cooled to room temperature and then an appropriate amount of 10% aqueous sodium bicarbonate, which has been sterilized before by autoclaving under an airtight condition, is added to it (When 12.5–22.0 mL is added, the pH at 37°C under 5% CO₂ is 7.1–7.4). • If not using immediately, the prepared medium solution is stored in a sealing container and kept in a cool dark place (2–10°C). Before use, 0.292 g of separately filter-sterilized L-glutamine is added to the medium.			
Unit	mg/L		mg/L	mg/L
Inorganic Salts				
Calcium chloride (CaCl ₂) (anhyd.)	200		200	200
Potassium chloride (KCl)	400		400	400
Magnesium sulfate (MgSO ₄) (anhyd.)	93.5		93.5	93.5
Sodium chloride (NaCl)	6,800		6,800	6,800
Sodium Dihydrogenphosphate (NaH ₂ PO ₄ · 2H ₂ O)	150		150	150
Amino Acids				
L-Arginine · HCl	126		126	126
L-Cysteine · HCl · H ₂ O	31.4		31.4	31.4
L-Histidine · HCl · H ₂ O	42		42	42
L-Isoleucine	52		52	52
L-Leucine	52		52	52
L-Lysine · HCl	73		73	73
L-Methionine	15		15	15
L-Phenylalanine	32		32	32
L-Threonine	48		48	48
L-Tryptophan	10		10	10
L-Tyrosine	36		36	36
L-Valine	46		46	46
Vitamins				
D-Biotin	0.02		0.02	0.02
Calcium pantothenate	1		1	1
Choline bitartrate	1.8		1.8	1.8
Folic acid	1		1	1
myo-Inositol	2		2	2
Nicotinamide	1		1	1
Pyridoxal · HCl	1		1	1
Riboflavin	0.1		0.1	0.1
Thiamine · HCl	1		1	1
Other Components				
D-Glucose (Dextrose)	1,000		1,000	1,000
Succinic acid	75		75	75
Disodium Succinate	60		60	60
Kanamycin sulfate	60 (Potency)		60 (Potency)	
Phenol Red	6			

AccuDia™ D-MEM ①②

Description

Dulbecco's Modified Eagle Medium "AccuDia" ① is a powder medium prepared by our company using a special method according to the medium formula developed by R. Dulbecco et al. The advantage of this medium is that nutrition necessary for the growth of cultured cells are rich by increasing the amino acid concentration in the Eagle's MEM by about twice and the vitamin concentration by about four time. In particular, since the growth can be maintained even after virus is applied, it is suitable for use in research fields using viruses. This medium is also widely used in primary cultures of a variety of cells as an improved Eagle's MEM containing the non-essential amino acids glycine and serine, pyruvate, an important component of carbohydrate metabolism, trace amounts of iron ions, etc.

Product Name	AccuDia™ D-MEM ①	AccuDia™ D-MEM ②
CODE	05915	05919
Package	100 g	100 g
Product Features	With L-Glutamine Without Sodium Bicarbonate	Autoclavable Without L-Glutamine and Sodium Bicarbonate
Storage	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).
Expiration Date	1 Year After Manufacture	1 Year After Manufacture
Usage	- Dissolve 10.0 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - An appropriate amount of sodium bicarbonate is added to the prepared medium solution (the pH at 37°C under 5% CO₂ gas is 7.1–7.4 when 1.0–1.8 g is added). And sterilize the solution by filtration just after complete dissolution. - Before use, add appropriate amount of serum according to purpose.	- Dissolve 9.5 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - After dissolving on a magnetic stirrer for about 30 minutes, the medium solution is sterilized by autoclaving at 121°C for 15 minutes. - After autoclaving, the medium is cooled to room temperature, and then an appropriate amount of 10% aqueous sodium bicarbonate, which has been sterilized before by autoclaving under airtight condition, is added (When 12–20 mL is added, the pH at 37°C under 5% CO₂ gas is 7.1–7.4). - Before use, 0.584 g of separately filter-sterilized L-glutamine is added. An appropriate amount of serum is added according to the purpose.
Unit	mg/L	mg/L
Inorganic Salts		
Calcium chloride (CaCl ₂) (anhyd.)	200	200
Ferric nitrate (Fe(NO ₃) ₃ · 9H ₂ O)	0.1	0.1
Potassium chloride (KCl)	400	400
Magnesium sulfate (MgSO ₄) (anhyd.)	97.7	97.7
Sodium chloride (NaCl)	6,400	6,400
Sodium Dihydrogenphosphate (NaH ₂ PO ₄ · 2H ₂ O)	125	140
Amino Acids		
L-Arginine · HCl	84	84
L-Cysteine · HCl · H ₂ O		70.3
L-Cystine · 2HCl	62.6	
L-Glutamine	584	
Glycine	30	30
L-Histidine · HCl · H ₂ O	42	42
L-Isoleucine	104.8	104.8
L-Leucine	104.8	104.8
L-Lysine · HCl	146.2	146.2
L-Methionine	30	30
L-Phenylalanine	66	66
L-Serine	42	42
L-Threonine	95.2	95.2
L-Tryptophan	16	16
L-Tyrosine · 2Na	89.5	89.5
L-Valine	93.6	93.6
Vitamins		
Calcium pantothenate	4	4
Choline bitartrate	7.2	7.2
Folic acid	4	4
myo-Inositol	7.2	7.2
Nicotinamide	4	4
Pyridoxal · HCl	4	4
Pyridoxine · HCl	4	
Riboflavin	0.4	0.4
Thiamine · HCl	4	4
Other Components		
D-Glucose (Dextrose)	1,000	1,000
Sodium pyruvate	110	110
Succinic acid		106
Disodium Succinate		16.2
Phenol Red	5	5

AccuDia™ RPMI 1640 Medium ①②

Description

RPMI 1640 medium "AccuDia" ① was a powder medium that is prepared by our company using a special method in accordance with the suspension culture medium developed by Dr. George E Moore, Director of the Roswell Park Memorial Institute. This medium prevents decomposition and deterioration of components, which are drawbacks of conventional liquid products, and it enables long-term storage. With this medium, many people around the world have made a breakthrough in the primary culture and maintenance of strain passage of mouse and human leukemia cells. This medium is also widely used in both basic and clinical settings because it also applicable to suspension culture of nonleukemic cells.

[Representative cells that can be cultured with this medium]

Various monoclonal antibody producing strains, primary cultures of human peripheral blood lymphocytes, etc

Product Name	AccuDia™ RPMI 1640 Medium ①	AccuDia™ RPMI 1640 Medium ②
CODE	05911	05918
Package	100 g	100 g
Product Features	With L-Glutamine Without Sodium Bicarbonate	Autoclavable Without L-Glutamine and Sodium Bicarbonate
Storage	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).
Expiration Date	1 Year After Manufacture	1 Year After Manufacture
Usage	- Dissolve 10.4 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - If the prepared solution is turbid or difficult to dissolve, lowering the pH to about 6.0 with a CO₂ gas makes the solution soluble and become transparent. - After dissolution, an appropriate amount of aqueous sodium bicarbonate (When 0.8–1.6 g is added, the pH at 37°C under a 5% CO₂ gas is 7.1–7.4) is added to the medium, and the medium is sterilized immediately by filtration. - Before use, an appropriate amount of serum is added according to purpose.	- Dissolve 10.2 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - After the medium has completely dissolved, sterilize by autoclaving at 121°C for 15 minutes. - After sterilization, the medium is cooled to room temperature and an appropriate amount of 10% aqueous sodium bicarbonate, which has been sterilized before by autoclaving under airtight condition, is added (When 18–30 mL is added, the pH at 37°C under 5% CO₂ gas is 7.1–7.4). - Before use, add appropriate amount of serum according to purpose.
Unit	mg/L	mg/L
Inorganic Salts		
Calcium nitrate (Ca(NO ₃) ₂ · 4H ₂ O)	100	100
Potassium chloride (KCl)	400	400
Magnesium sulfate (MgSO ₄) (anhyd.)	48.84	48.84
Sodium chloride (NaCl)	6,000	6,000
Disodium Hydrogenphosphate (Na ₂ HPO ₄ · 2H ₂ O)	1004	880
Amino Acids		
L-Arginine	200	
L-Arginine · HCl		240
L-Asparagine · H ₂ O	56.8	56.8
L-Aspartic acid	20	20
L-Cysteine · HCl · H ₂ O		72.9
L-Cystine · 2HCl	65.15	
L-Glutamic acid	20	20
L-Glutamine	300	
Glycine	10	10
L-Histidine	15	
L-Histidine · HCl · H ₂ O		20.3
L-Hydroxyproline	20	20
L-Isoleucine	50	50
L-Leucine	50	50
L-Lysine · HCl	40	40
L-Methionine	15	15
L-Phenylalanine	15	15
L-Proline	20	20
L-Serine	30	30
L-Threonine	20	20
L-Tryptophan	5	5
L-Tyrosine	20	20
L-Valine	20	20
Vitamins		
D-Biotin	0.2	0.2
Calcium pantothenate	0.25	0.25
Choline Chloride	3	3
Cyanocobalamin (Vitamin B ₁₂)	0.005	0.005
Folic acid	1	1
<i>myo</i> -Inositol	35	35
Nicotinamide	1	1
<i>para</i> -Aminobenzoic acid	1	1
Pyridoxine · HCl	1	1
Riboflavin	0.2	0.2
Thiamine · HCl	1	1
Other Components		
D-Glucose (Dextrose)	2,000	2,000
Glutathione (reduced)	1	1
Succinic acid		46
Succinic acid · 2Na		98.85
Phenol Red	5	5

AccuDia™ Hank's Balanced Salt Solution ①② , AccuDia™ D-PBS (-)

Description Hank's Balanced Salt Solution

Hanks' solution "AccuDia" is a physiological buffered saline solution that contains the inorganic salts essential for cells to become isotonic with serum and tissue fluids and also has a buffering capacity to minimize changes in pH during culture. And It also contains glucose, a basic energy source for cells. Furthermore, phenol red is added as a pH indicator so that users can directly observe the decrease in pH of the prepared culture solution.

Usage HBSS ①②

9.8 g of this powder medium is dissolved in distilled water to make a total volume up to 1,000 mL. After complete dissolution, a suitable amount of sodium bicarbonate is added to the medium solution (When 0.2–0.35 g of sodium hydrogen carbonate is added, the pH is 7.3–7.6 at 37°C in the air phase) and sterilize it by filtration immediately. If not using immediately, the prepared medium solution is stored in a sealing container and kept in a cool dark place (2–10°C).

Description D-PBS (-)

Dulbecco PBS is a physiological buffer salt solution that contains the inorganic salts essential for cells to become isotonic with serum and tissue fluids and is prepared to have sufficient buffering capacity in the air phase at a pH suitable for the cells. Generally, PBS (-) is used as a solvent for enzyme such as trypsin or a cell washing solution before enzyme treatment, and PBS (+) is used as a washing solution for cells or diluent for drugs.

Usage D-PBS (-)

- In case of D-PBS (-):** Dissolve 9.6 g of D-PBS (-) powder in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL, and sterilize the prepared medium solution by autoclaving at 121°C for 15 minutes or by filtration.
- In case of D-PBS (+):** Dissolve 9.6 g of D-PBS (-) powder in distilled water or similar cell culture grade water to make the total volume up to 800 mL. Two hundred (200) mL of a metal salt solution [Self-preparation: 100 mg of Calcium chloride (anhydrate) and 100 mg of magnesium chloride (hexahydrate) are dissolved in distilled water or similar cell culture grade water to make a volume up to 200 mL] is poured into the prepared medium solution stepwisely while stirring. The medium solution thus obtained is mixed and sterilize by filtration. When the medium solution is sterilized by autoclaving, each solution is sterilized separately and mixed aseptically after cooling sufficiently as described above.

Description Ham's F-12

Ham's F-12 "AccuDia" is a powder medium prepared by our company using a special preparation process following the liquid synthetic medium formulation reported by Richard G. Ham in 1965. This medium is excellent for single-cell culture of mammalian cells and is widely used for culture of Chinese hamster cells. It also exhibits excellent growth-promoting effects in primary cultures of various cells including human cells.

Description Medium 199

Medium 199 "AccuDia" is a powder medium prepared by our company using a special preparation process following the formulation of a synthetic culture solution by Morgan, Morton and Parker. The medium contains a variety of amino acids, vitamins, nucleic acid components and a small number of intermediate metabolites and others. Although this medium alone is not promising for cell growth, it is widely used as a cell maintenance medium in polio vaccines and other viral studies. This medium can be used as an excellent growth medium for primary cultures when serum is added.

Description SFM-101

SFM -101 "AccuDia" is a serum-free synthetic medium prepared by adding insulin, transferrin, and monoethanolamine to a basic medium, a mixture of equal amounts of RPMI 1640 and Eagle's MEM to which several components such as thymidine and selenium have been added and the amount of amino acids has also been readjusted.

Caution SFM-101

Precautions for Use

- When sterilizing the medium by filtration, use a protein low adsorption filter to avoid adsorption of protein components to the filter.
- If the dissolved supplement A cannot be used up, it can be used later if stored at -20°C or below. However, freeze-thaw cycle must be avoided.
- The storage period for the prepared medium should be no more than 2 months.

Precautions for Disposal

This basal medium contains sodium selenite, but it is not classified as an extra-pharmaceutical toxic substance because it's content is extremely low (0.00011% or Less).

Product Name	AccuDia™ Hank's Balanced Salt Solution ①	AccuDia™ Hank's Balanced Salt Solution ②	AccuDia™ D-PBS (-)	
CODE	05905	05906	05913	08190
Package	100 g	100 g	100 g	For 1 L x 10 Packs
Product Features	Without Sodium Bicarbonate	Without Phenol Red and Sodium Bicarbonate	Autoclavable	
Storage	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	
Expiration Date	2 Year After Manufacture	2 Year After Manufacture	2 Year After Manufacture	
Usage	- Dissolve 9.8 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL (Do not heat). - An appropriate amount of sodium bicarbonate is added (When 0.2–0.35 g is added, the pH at 37°C under a 5% CO₂ gas is 7.3–7.6) and dissolved completely. - Then the prepared medium solution is sterilized immediately by filtration.	- Dissolve 9.8 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL (Do not heat). - An appropriate amount of sodium bicarbonate is added (When 0.2–0.35 g is added, the pH at 37°C under a 5% CO₂ gas is 7.3–7.6) and dissolved completely. - Then the prepared medium solution is sterilized immediately by filtration.	- Dissolve 9.6 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - After the medium has completely dissolved, sterilize by autoclaving at 121°C for 15 minutes.	- Dissolve 1 pack of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - After the medium has completely dissolved, sterilize by autoclaving at 121°C for 15 minutes.
Unit	mg/L	mg/L	mg/L	mg/L
Inorganic Salts				
Calcium chloride (CaCl ₂) (anhyd.)	140	140		
Potassium chloride (KCl)	400	400	200	200
Potassium dihydrogenphosphate (KH ₂ PO ₄)	60	60	200	200
Magnesium chloride (MgCl ₂ · 6H ₂ O)	100	100		
Magnesium sulfate (MgSO ₄ · 7H ₂ O)	100	100		
Sodium chloride (NaCl)	8,000	8,000	8,000	8,000
Sodium Dihydrogenphosphate (Na ₂ HPO ₄ · 2H ₂ O)	60	60	1150	1150
Other Components				
D-Glucose (Dextrose)	1,000	1,000		
Phenol Red	6			

AccuDia™ Medium 199, AccuDia™ Ham's F-12, AccuDia™ SFM-101

Product Name	AccuDia™ Medium 199	AccuDia™ Ham's F-12	AccuDia™ SFM-101 (Contents: Basal Medium 12.5 g, Supplement A 10 mL, Supplement B 5 mL)
CODE	05909	05910	05963
Package	100 g	100 g	For 1 L
Product Features	Without Sodium Bicarbonate	Without Sodium Bicarbonate	Serum-Free Medium Without Sodium Bicarbonate
Storage	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).	Be stored in a sealing container and kept in a dry, cool and dark place (2–10°C).
Expiration Date	1 Year After Manufacture	1 Year After Manufacture	1 Year After Manufacture
Usage	- Dissolve 9.5 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL (Do not heat). - An appropriate amount of sodium bicarbonate is added (When 1.3–2.2 g is added, the pH at 37°C under a 5% CO₂ gas is 7.1–7.4) and dissolved completely. - Then the prepared medium solution is sterilized immediately by filtration - Lowering pH with CO₂ gas before filtration can prevent excessive pH increases - Before use, add appropriate amount of serum according to purpose.	- Dissolve 10.6 g of this powder medium in distilled water or similar cell culture grade water to make a total volume up to 1,000 mL. - At this time, do not apply excessive heat (37°C or higher) to the medium. - An appropriate amount of sodium bicarbonate is added (When 1.2–2.0 g is added, the pH at 37°C under a 5% CO₂ gas is 7.1–7.4) and dissolved completely, and then the prepared medium solution is sterilized immediately by filtration. - Lowering pH with CO₂ gas before filtration can prevent excessive pH increases. - Before use, add appropriate amount of serum according to purpose.	- The total amount of one bottle of basic medium (12.5 g) is completely dissolved in about 900 mL of distilled water or similar cell culture grade water. Lowering pH to about 6.0 with a CO₂ gas makes the product more soluble. - Ten(10) mL of distilled water or similar cell culture grade water is added to Supplement A and Supplement A is dissolved completely. - Total amounts of Supplements A and B are added to the prepared basic medium and an appropriate amount of sodium bicarbonate is added (When 1–1.5 g is added to 1 L of medium, the pH of the medium at 37°C under a 5% CO₂ gas is 7.1–7.4). Then distilled water is added to the prepared medium to make the total volume up to 1,000 mL. - After mixing thoroughly, the medium is sterilized immediately by filtration.
Unit	mg/L	mg/L	mg/L
Inorganic Salts			
Calcium chloride (CaCl ₂) (anhyd.)	200	33.31	100
Calcium nitrate (Ca(NO ₃) ₂ · 4H ₂ O)			50.4
Cupric sulfate (CuSO ₄ · 5H ₂ O)		0.0025	
Ferric sulfate (FeSO ₄ · 7H ₂ O)		0.834	
Ferric nitrate (Fe(NO ₃) ₃ · 9H ₂ O)	0.72		
Potassium chloride (KCl)	400	224	400
Magnesium chloride (MgCl ₂ · 6H ₂ O)		122	
Magnesium sulfate (MgSO ₄) (anhyd.)	97.7		71
Sodium chloride (NaCl)	6,800	7,599	6,000
Sodium phosphate monobasic (NaH ₂ PO ₄ · H ₂ O)	125		
Sodium phosphate monobasic (NaH ₂ PO ₄ · 2H ₂ O)			75
Sodium Dihydrogenphosphate (Na ₂ HPO ₄ · 2H ₂ O)		177.97	502
Zinc sulfate (ZnSO ₄ · 7H ₂ O)		0.863	
Sodium Selenite			0.002
Amino Acids			
L-Alanine	25	8.91	
L-Arginine			100
L-Arginine · HCl	70	211	78
L-Asparagine · H ₂ O		15.01	43.4
L-Aspartic acid	30	13.31	10
L-Cysteine · HCl · H ₂ O	0.11	35.12	15.7
L-Cystine	20		
L-Cystine · 2HCl			32.5
L-Glutamic acid	66.8	14.71	10
L-Glutamine	100	146	600
Glycine	50	7.51	10
L-Histidine			7.5
L-Histidine · HCl · H ₂ O	21.9	20.96	21
L-Hydroxyproline	10		10
L-Isoleucine	20	3.94	51
L-Leucine	60	13.12	51
L-Lysine · HCl	70	36.54	15
L-Methionine	15	4.48	
L-Phenylalanine	25	4.96	23.5
L-Proline	40	34.53	15
L-Serine	25	10.51	30
L-Threonine	30	11.91	49
L-Tryptophan	10	2.04	7.5
L-Tyrosine	40	5.44	28
L-Valine	25	11.71	48
Vitamins			
Ascorbic acid	0.05		
D-Biotin	0.01	0.0073	0.2
Calcium pantothenate	0.01	0.477	0.6
Calciferol (Vitamin D ₂)	0.1		
Choline bitartrate	0.9		0.9
Choline Chloride		14	26.5
Cyanocobalamin (Vitamin B ₁₂)		1.36	0.004
Folic acid	0.01	1.32	1
2-Methyl-1,4-naphthoquinone (Menadione, Vitamin K ₃)	0.01		
myo-Inositol	0.05	18	18.5
Nicotinamide	0.025	0.037	1
Nicotinic Acid	0.025		
para-Aminobenzoic acid	0.05		0.5
Pyridoxal · HCl	0.025		0.5
Pyridoxine · HCl	0.025	0.062	0.5
Vitamin A (Acetate)	0.1		
Riboflavin	0.01	0.038	0.15
alpha-Tocopherol phosphate · 2Na	0.01		
Thiamine · HCl	0.01	0.377	1
Other Components			
Adenine	10		
Adenosine 5'-triphosphate · 2Na	1		
Adenosine 5'-monophosphate · 2Na	0.2		
Cholesterol	0.2		
2-deoxy-D-ribose	0.5		
D-Glucose (Dextrose)	1,000	1,802	2,000
Glutathione (reduced)	0.05		0.5
Guanine · HCl	0.36		
Hypoxanthin	0.3	4.08	0.025
Linoleic acid		0.084	
Lipoic acid		0.206	
Putrescine · 2HCl		0.161	0.013
D-Ribose	0.5		
Sodium pyruvate		110	110
Sodium acetate	50		
Succinic acid			37.5
Disodium Succinate			50
Thymine	0.3		
Thymidine		0.727	0.013
Uracil	0.3		
Xanthine	0.3		
Polysorbate 80	5		
Dihydroxyethylglycine			1800
Phenol Red	6	1.24	5

Contract Media Manufacturing Service

We can provide cell culture media tailored to your specific requirements (Custom formulations, modified compositions, packaging/volume, etc.). We offer meticulous support through prior consultation.

Features

- Operated under ISO 9001 Quality Management System
- Facility operation based on PIC/S GMP Annex 1
- Only raw materials compliant with STANDARDS FOR BIOLOGICAL RAW MATERIALS
- No use of highly bioactive substances such as antibiotics
- Production is possible in accordance with raw material standards for regenerative medicine products (powder and liquid culture medium)

Regenerative Medicine Culture Medium Plant (GMP-Compliant Manufacturing)

Powdered Medium: Up to 10 kg/batch

Liquid Medium : Up to 500 L/batch

Research Reagent Grade Manufacturing Available

Paid Samples for Evaluation Also Available

Inquire regarding manufacturing conditions and scale



Culture Medium Component Analysis Service

Analyzing 95 components in culture media using LCMS

Profiling 95 components (Medium components and secreted metabolites)

Amino Acid and Derivatives		Vitamins	Nucleic acid associated compounds	Others	Internal Standard
2-Aminoadipic acid	Histidine	4-Aminobenzoic acid	Adenine	2-Aminoethanol	2-Isopropylmalic acid
4-Aminobutyric acid	Isoleucine	Ascorbic acid	Adenosine	2-Ketoisovaleric acid	
4-Hydroxyproline	Kynurenine	Ascorbic acid 2-phosphate	Adenosine monophosphate	3-Methyl-2-oxovaleric acid	
5-Glutamylcysteine	Leucine	Biotin	Cytidine	4-Hydroxyphenyllactic acid	
5-Oxoproline	Lysine	Choline	Cytidine monophosphate	Citric acid	Sugars Gluconic acid Glucosamine Hexose (Glucose) Sucrose Threonic acid
Alanine	Methionine	Cyanocobalamin	Deoxycytidine	Ethylenediamine	
Alanyl-glutamine	Methionine sulfoxide	Ergocalciferol	Guanine	Fumaric acid	
Arginine	N-Acetylaspartic acid	Folic acid	Guanosine	Glyceric acid	
Asparagine	N-Acetylcysteine	Folinic acid	Guanosine monophosphate	Histamine	
Aspartic acid	Ornithine	Lipoic acid	Hypoxanthine	Isocitric acid	
Citrulline	Oxidized glutathione	Niacinamide	Inosine	Lactic acid	
Cystathionine	Phenylalanine	Nicotinic acid	Thymidine	Malic acid	
Cysteine	Pipecolic acid	Pantothenic acid	Thymine	O-Phosphoethanolamine	
Cystine	Proline	Pyridoxal	Uracil	Putrescine	
Glutamic acid	Serine	Pyridoxine	Uric acid	Pyruvic acid	Succinic acid Penicillin G
Glutamine	Threonine	Riboflavin	Uridine	Succinic acid	
Glutathione	Tryptophan	Tocopherol acetate	Xanthine	Penicillin G	
Glycine	Tyrosine		Xanthosine		
Glycyl-glutamine	Valine				

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