

The background is a vibrant blue with various shades and textures. It features several overlapping, semi-transparent geometric shapes, including triangles and polygons, in lighter blue tones. Scattered across the upper and middle sections are several white circles of varying sizes. A thin, white curved line starts from the top left and arcs across the middle. The overall aesthetic is clean, modern, and scientific.

Cell Culture-Related Products **Catalog**

Shimadzu Diagnostics Corporation

Cell Culture-Related Products
Table of Contents

The expected delivery price shown in this table is the expected delivery price excluding consumption tax.
*From April 1, 2016

Product Name	Unified product Code	Product Code	Package	Desired Delivery Price	Expiration Date *	Page
Powder Medium						
Eagle' s MEM Medium ^① (Sterilizable in Autoclave)	302059003	05900	100 g		1 Year	1
Eagle' s MEM Medium ^① Pack	302081608	08160	For 1L x 10 Packages		2 Years	1
Eagle' s MEM Medium ^② (PR-free) (Sterilizable in Autoclave)	302059010	05901	100 g		1 Year	2
Eagle' s MEM Medium ^③ (KM and PR-free) (Sterilizable in Autoclave)	302059027	05902	100 g		1 Year	2
Dulbecco's Modified Eagle's Medium ^①	302059157	05915	100 g		1 Year	4
Dulbecco's Modified Eagle's Medium ^② (Sterilizable in Autoclave)	302059195	05919	100 g		1 Year	5
RPMI 1640 Medium ^①	302059119	05911	100 g		1 Year	6
RPMI 1640 Medium ^② (Sterilizable in Autoclave)	302059188	05918	100 g		1 Year	7
199 Medium	302059096	05909	100 g		1 Year	8
Ham F 12 Medium	302059102	05910	100 g		1 Year	9
SFM -101 Medium	302059638	05963	For 1 L		1 Year	10
Hanks' Solution ^①	302059058	05905	100 g		2 Years	11
Hanks' Solution (PR-Free) ^②	302059065	05906	100 g		2 Years	11
Dulbecco PBS (-) Powder	302059133	05913	100 g		2 Years	12
Dulbecco PBS (-) Powder Pack	302081905	08190	For 1L x 10 Packs		2 Years	12
Dulbecco PBS (-) Powder Pack	302081929	08192	For 10 L x 1 Pack		2 Years	12
Glutamine	302059089	05908	0.3 g		2 Years	12

Storage: Powder medium shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C).

*The Expiration Date indicates a period after manufacturing.

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Autoclavable, Kanamycin and Phenol Red Containing, L- glutamine and Sodium Bicarbonate-Free Eagle' s MEM Medium "AccuDia" ① Eagle's MEM "AccuDia" ①	05900	100 g		Dissolve 9.4 g of this powder in distilled 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 hydrogen carbonate solution, 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% CO 2 is 7.1 ~ 7.4.). If not using immediately, the medium 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. Sterile lyophilized glutamine "AccuDia" is convenient for it. An appropriate amount of serum is added according to the purpose. CAUTION As this product contains 60 mg (potency) of kanamycin sulfate/L, it is not necessary to add antibiotics such as streptomycin or penicillin.
Eagle's MEM Medium "AccuDia" ① Pack Product Eagle's MEM "AccuDia" ① Pack Product	08160	For 1L x 10 Packs		
Composition				Description
Per 9.4 g (1 L) Sodium Chloride • • • • • 6,800 mg Potassium Chloride • • • • • 400 mg Calcium Chloride (Anhydrate) • • • • • 200 mg Magnesium Sulfate (Anhydrate) • • • • • 93.5 mg Sodium Dihydrogen Phosphate (Dihydrate) • • • • • 150 mg Glucose • • • • • 1,000 mg L-Arginine Hydrochloride • • • • • 126 mg L-Cysteine Hydrochloride Hydrate • • • • • 31.4 mg L-Tyrosine • • • • • 36 mg L-Histidine Hydrochloride Hydrate • • • • • 42 mg L-Isoleucine • • • • • 52 mg L-Leucine • • • • • 52 mg L-Lysine Hydrochloride • • • • • 73 mg L-Methionine • • • • • 15 mg L-Phenylalanine • • • • • 32 mg L-Threonine • • • • • 48 mg L-Tryptophan • • • • • 10 mg L-Valine • • • • • 46 mg Succinic Acid • • • • • 75 mg Disodium Succinate (Anhydrate) • • • • • 60 mg Choline Tartrate • • • • • 1.8 mg Folic Acid • • • • • 1 mg myo-Inositol • • • • • 2 mg Nicotinamide • • • • • 1 mg Calcium Pantothenate • • • • • 1 mg Pyridoxal Hydrochloride • • • • • 1 mg Riboflavin • • • • • 0.1 mg Thiamine Hydrochloride • • • • • 1 mg D-biotin • • • • • 0.02 mg Kanamycin Sulfate • • • • • 60 mg (potency) Phenol Red • • • • • 6 mg				Eagle' s MEM medium "AccuDia" ① was prepared following the formulation of MEM medium 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. Storage This medium powder shall 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 Pack Product).

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Autoclavable, Kanamycin-Containing, Phenol Red, L-Glutamine and Sodium Bicarbonate-Free Eagle' s MEM Medium "AccuDia" ② Eagle's MEM "AccuDia" ②	05901	100 g		See Eagle' s MEM medium "AccuDia" ①. This medium exhibits excellent growth-promoting effects on cell lines such as HeLa cells and L cells, and also on the cells not isolated from living tissues.
Composition				Description
The composition of this medium is the same as that of Eagle' s MEM medium "AccuDia" ① without phenol red. For 1 liter = 9.4 g				<p>Storage This medium powder shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date 1 Year After Manufacture..</p> <p>[Representative cells that can be cultured with this medium]</p> <p>NIH3T 3/14 -1, WI -38, Vero, HeLa, V 79, RC4, etc.</p>

Product Name	Product Code	Package	Desired Delivery Price	Usage
Autoclavable, Kanamycin-, Phenol Red, L-Glutamine and Sodium Bicarbonate-Free Eagle' s MEM Medium "AccuDia" ③ Eagle's MEM "AccuDia" ③	05902	100 g		See Eagle' s MEM medium "AccuDia" ①.
Composition				Description
The composition of this medium is the same as that of Eagle' s MEM medium "AccuDia" ① without kanamycin sulfate and phenol red. For 1 liter = 9.4 g				<p>This medium powder shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date 1 Year After Manufacture.</p>



Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
L-Glutamine-Containing, Sodium Bicarbonate-Free Dulbecco's Modified Eagle's Medium "AccuDia" ^① Dulbecco's Modified Eagle Medium "AccuDia" ^①	05915	100 g		Dissolve 10.0 g of this powder medium in distilled 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% CO ₂ gas is 7.1 ~ 7.4 when 1.0 ~ 1.8 g is added.) and sterilize the solution by filtration just after complete dissolution. Advance lowering pH with CO ₂ gas before filtration can prevent excessive pH increases. If not used immediately, the prepared medium solution is stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C). Before use, add appropriate amount of serum according to purpose. CAUTION ① This product contains L-glutamine and does not contain sodium bicarbonate. ② This product cannot be sterilized by autoclaving.
Composition				Description
Per 10.0 g (1 L) Sodium Chloride · · · · · 6,400 mg Potassium Chloride · · · · · 400 mg Calcium Chloride (anhydrate) · · · · · 200 mg Magnesium Sulfate (Anhydrate) · · · · · 97.7 mg Sodium Dihydrogen Phosphate (Dihydrate) · · · · · 125 mg Iron (III) Nitrate (Enneahydrate) · · · · · 0.1 mg Glucose · · · · · 1,000 mg Sodium Pyruvate · · · · · 110 mg L-Arginine Hydrochloride · · · · · 84 mg L-Cystine Dihydrochloride · · · · · 62.6 mg Glycine · · · · · 30 mg L-Histidine Hydrochloride Hydrate · · · · · 42 mg L-Isoleucine · · · · · 104.8 mg L-Leucine · · · · · 104.8 mg L-Lysine Hydrochloride · · · · · 146.2 mg L-Methionine · · · · · 30 mg L-Phenylalanine · · · · · 66 mg L-Serine · · · · · 42 mg L-Threonine · · · · · 95.2 mg L-Tryptophan · · · · · 16 mg L-Tyrosine Disodium · · · · · 89.5 mg L-Valine · · · · · 93.6 mg Choline Tartrate · · · · · 7.2 mg Folic Acid · · · · · 4 mg Nicotinamide · · · · · 4 mg Calcium Pantothenate · · · · · 4 mg Pyridoxal Hydrochloride · · · · · 4 mg Riboflavin · · · · · 0.4 mg Thiamine Hydrochloride · · · · · 4 mg Myo-Inositol · · · · · 7.2 mg Phenol Red · · · · · 5 mg L-Glutamine · · · · · 584 mg				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 nutrients 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. Storage This powder medium shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C). Expiration Date 1 Year After Manufacture.

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Autoclavable, L-Glutamine and Sodium Bicarbonate-Free Du Dulbecco's Modified Eagle's Medium "AccuDia" ② Dulbecco's Modified Eagle Medium "AccuDia" ②	05919	100 g		Dissolve 9.5 g of this powder medium in distilled 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 sterilize by autoclaving at 121 ° C for 15 minutes. After autoclaving, the medium is cooled to room temperature, ant then an appropriate amount of 10% aqueous sodium hydrogen carbonate solution, 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% CO ₂ gas is 7.1 ~ 7.4.). If not using immediately, the prepared medium solution shall be stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C). Before use, 0.584 g of separately filter-sterilized L-glutamine is added. An appropriate amount of serum is added according to the purpose. CAUTION This medium does not contain L-glutamine or sodium bicarbonate.
Composition				Description
Per 9.5 g (1 L) Sodium Chloride • • • • • 6,400 mg Potassium Chloride • • • • • 400 mg Calcium Chloride (Anhydrate) • • • • • 200 mg Magnesium Sulfate (Anhydrate) • • • • • 97.7 mg Sodium Dihydrogen Phosphate (Dihydrate) • • • • • 140 mg Iron (III) Nitrate (Enneahydrate) • • • • • 0.1 mg Glucose • • • • • 1,000 mg Sodium Pyruvate • • • • • 110 mg Succinic Acid • • • • • 106 mg Disodium Succinate (Anhydrate) • • • • • 16.2 mg L-Arginine Hydrochloride • • • • • 84 mg L - Cysteine Hydrochloride Hydrate • • • • • 70.3 mg Glycine • • • • • 30 mg L - Histidine Hydrochloride Hydrate • • • • • 42 mg L - Isoleucine • • • • • 104.8 mg L - leucine • • • • • 104.8 mg L - Lysine Hydrochloride • • • • • 146.2 mg L-Methionine • • • • • 30 mg L-Phenylalanine • • • • • 66 mg L - Serine • • • • • 42 mg L-Threonine • • • • • 95.2 mg L - Tryptophan • • • • • 16 mg L-Tyrosine Disodium • • • • • 89.5 mg L - Valine • • • • • 93.6 mg Choline Tartrate • • • • • 7.2 mg Folic Acid • • • • • 4 mg Nicotinamide • • • • • 4 mg Calcium Pantothenate • • • • • 4 mg Pyridoxal Hydrochloride • • • • • 4 mg Riboflavin • • • • • 0.4 mg Thiamine Hydrochloride • • • • • 4 mg Myo - Inositol • • • • • 7.2 mg Phenol Red • • • • • 5 mg				Dulbecco's Modified Eagle Medium "AccuDia" ② is an autoclavable powder medium tha is prepared by our company using a special process according to the medium formulation developed by R. Dulbecco. The advantage of this medium is that it is rich in the nutritions necessary for the growth of cultured cells 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. The medium is used in cultures of a variety of primary cells and cell lines as an improved Eagle' s MEM containing the non-essential amino acids pyruvate, iron ions, etc.. Storage This powder medium shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C). Expiration Date 1 Year After Manufacture.

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage	
L-glutamine-Containing Sodium Bicarbonate-Free RPMI 1640 Medium "AccuDia" ① RPMI 1640 Medium "AccuDia" ①	05911	100 g		<p>Dissolve 10.4 g of this powder medium in distilled 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 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. 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, an appropriate amount of serum is added according to purpose.</p> <p>CAUTION</p> <p>① This product contains L-glutamine and does not contain sodium bicarbonate. ② This product cannot be sterilized by autoclaving.</p>	
Composition				Description	
<p>Per 10.4 g (1 L)</p> <p>Sodium Chloride 6,000 mg</p> <p>Potassium Chloride 400 mg</p> <p>Calcium Nitrate (Tetrahydrate) 100 mg</p> <p>Magnesium Sulfate (Anhydrate) 48.84 mg</p> <p>Disodium Hydrogen Phosphate(Dihydrate) 1,004 mg</p> <p>Glucose 2,000 mg</p> <p>L-Arginine 200 mg</p> <p>L-asparagine (Monohydrate) 56.8 mg</p> <p>L-Aspartic Acid 20 mg</p> <p>L-Cystine Dihydrochloride 65.15 mg</p> <p>L-Glutamic Acid 20 mg</p> <p>Glutathione 1 mg</p> <p>Glycine 10 mg</p> <p>L-histidine 15 mg</p> <p>L-Hydroxyproline 20 mg</p> <p>L-Isoleucine 50 mg</p> <p>L-Leucine 50 mg</p> <p>L-Lysine Hydrochloride 40 mg</p> <p>L-methionine 15 mg</p> <p>L-Phenylalanine 15 mg</p> <p>L-proline 20 mg</p> <p>L-Serine 30 mg</p> <p>L-Threonine 20 mg</p> <p>L-Tryptophan 5 mg</p>				<p>L-Tyrosine 20 mg</p> <p>L-Valine 20 mg</p> <p>D-Biotin 0.2 mg</p> <p>Calcium Pantothenate 0.25 mg</p> <p>Choline Chloride 3 mg</p> <p>Folic Acid 1 mg</p> <p>Myo-Inositol 35 mg</p> <p>Nicotinamide 1 mg</p> <p>p-aminobenzoic Acid 1 mg</p> <p>Pyridoxine Hydrochloride 1 mg</p> <p>Riboflavin 0.2 mg</p> <p>Thiamine Hydrochloride 1 mg</p> <p>Cyanocobalamin 0.005 mg</p> <p>L-glutamine 300 mg</p> <p>Phenol Red 5 mg</p> <p>Other substances to be added</p> <p>Sodium Bicarbonate As Needed</p>	<p>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.</p> <p>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]</p> <p>Various monoclonal antibody producing strains, primary cultures of human peripheral blood lymphocytes, etc.</p> <p>Storage</p> <p>This medium powder shall be stored in a sealing container and kept in dry, cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date</p> <p>1 Year After Manufacturing.</p>

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Autoclavable, L-Glutamine- and Sodium Bicarbonate-Free RPMI 1640 Medium "AccuDia" ② RPMI 1640 Medium "AccuDia" ②	05918	100 g		<p>Dissolve 10.2 g of this powder medium in distilled 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 hydrogen carbonate solution, 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.). If not used immediately, the prepared medium solution shall be stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C). Before use, add appropriate amount of serum according to purpose.</p> <p>CAUTION This product does not contain L-glutamine and sodium bicarbonate.</p>
Composition				Description
<p>Per 10.2 g (1 L)</p> <p>Sodium Chloride 6,000 mg</p> <p>Potassium Chloride 400 mg</p> <p>Calcium Nitrate (Tetrahydrate) 100 mg</p> <p>Magnesium Sulfate (Anhydrate) 48.84 mg</p> <p>Sodium Dihydrogen Phosphate (Dihydrate) 880 mg</p> <p>Glucose 2,000 mg</p> <p>Succinic Acid 46 mg</p> <p>Disodium Succinate (Anhydrate) 98.85 mg</p> <p>L-Arginine Hydrochloride 240 mg</p> <p>L-Asparagine (Monohydrate) 56.8 mg</p> <p>L-Aspartic Acid 20 mg</p> <p>L-Cysteine Hydrochloride Hydrate 72.9 mg</p> <p>L-Glutamic Acid 20 mg</p> <p>Glutathione 1 mg</p> <p>Glycine 10 mg</p> <p>L-Histidine Hydrochloride Hydrate 20.3 mg</p> <p>L-Hydroxyproline 20 mg</p> <p>L-Isoleucine 50 mg</p> <p>L-Leucine 50 mg</p> <p>L-Lysine Hydrochloride 40 mg</p> <p>L-Methionine 15 mg</p> <p>L-Phenylalanine 15 mg</p> <p>L-Proline 20 mg</p> <p>L-Serine 30 mg</p> <p>L-Threonine 20 mg</p> <p>L-Tryptophan 5 mg</p> <p>L-Tyrosine 20 mg</p> <p>L-Valine 20 mg</p> <p>D-Biotin 0.2 mg</p> <p>Calcium Pantothenate 0.25 mg</p> <p>Choline Chloride 3 mg</p> <p>Folic Acid 1 mg</p> <p>Myo-Inositol 35 mg</p> <p>Nicotinamide 1 mg</p> <p>ρ-Aminobenzoic Acid 1 mg</p> <p>Pyridoxine Hydrochloride 1 mg</p> <p>Riboflavin 0.2 mg</p> <p>Thiamine Hydrochloride 1 mg</p> <p>Cyanocobalamin 0.005 mg</p> <p>Phenol Red 5 mg</p> <p>Other substances to be added</p> <p>Sodium Bicarbonate As Needed</p> <p>L-Glutamine 292 mg</p>				<p>RPMI 1640 medium "AccuDia" ② as a autoclavable powder medium prepared by our company using a special method in accordance with the suspension culture medium formulation developed by Dr. George E Moore, Director of the Roswell Park Memorial Institute.</p> <p>This medium is used for primary cells and cell lines of mouse and human leukemia cells, as well as for the culture of KATO-III cells (signet ring cell carcinoma) and many human cancer cells.</p> <p>Containers and storage This medium powder shall be stored in a sealing container and kept in dry, cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date 1 Year After Manufacture.</p>

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Sodium Bicarbonate-Free Medium 199 "AccuDia" Medium 199 "AccuDia"	05909	100 g		Dissolve 9.5 g of this powder medium in distilled 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% CO ₂ gas is 7.1 ~ 7.4) and dissolved completely. Then the prepared medium solution is sterilized immediately by filtration. Lowering pH with CO ₂ gas before filtration can prevent excessive pH increases. If not used immediately, the medium solution shall be stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C). Before use, add appropriate amount of serum according to purpose. CAUTION This product contains L-glutamine and does not contain sodium bicarbonate.

Composition	Description
<p>Per 9.5 g (1 L)</p> <p>Sodium Chloride 6,800 mg</p> <p>Potassium Chloride 400 mg</p> <p>Calcium Chloride (Anhydrate) 200 mg</p> <p>Magnesium Sulfate (Anhydrate) 97.7 mg</p> <p>Sodium Dihydrogen Phosphate (Monohydrate) 125 mg</p> <p>Iron (III) Nitrate (Enneahydrate) 0.72 mg</p> <p>Sodium Acetate 50 mg</p> <p>Adenosine 5 'Triphosphate Disodium 1 mg</p> <p>Glucose 1,000 mg</p> <p>L-Arginine Hydrochloride 70 mg</p> <p>L-Histidine Hydrochloride Hydrate 21.9 mg</p> <p>L-Lysine Hydrochloride 70 mg</p> <p>L-Tryptophan 10 mg</p> <p>L-Phenylalanine 25 mg</p> <p>L-Methionine 15 mg</p> <p>L-Serine 25 mg</p> <p>L-Threonine 30 mg</p> <p>L-Leucine 60 mg</p> <p>L-Isoleucine 20 mg</p> <p>L-Valine 25 mg</p> <p>L-Glutamic Acid 66.8 mg</p> <p>L-Aspartic Acid 30 mg</p> <p>L-Alanine 25 mg</p> <p>L-Proline 40 mg</p> <p>L-Hydroxyproline 10 mg</p> <p>Glycine 50 mg</p> <p>L-Glutamine 100 mg</p> <p>L-Cystine 20 mg</p> <p>L-Tyrosine 40 mg</p> <p>L-Cysteine Hydrochloride Hydrate 0.11 mg</p>	<p>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.</p> <p>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.</p> <p>Storage This medium powder shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date 1 Year After Manufacture.</p>
<p>p-Aminobenzoic Acid 0.05 mg</p> <p>D-Biotin 0.01 mg</p> <p>Calcium Pantothenate 0.01 mg</p> <p>Folic Acid 0.01 mg</p> <p>myo-inositol 0.05 mg</p> <p>Nicotinic Acid 0.025 mg</p> <p>Nicotinamide 0.025 mg</p> <p>Pyridoxal Hydrochloride 0.025 mg</p> <p>Pyridoxine Hydrochloride 0.025 mg</p> <p>Riboflavin 0.01 mg</p> <p>Thiamine Hydrochloride 0.01 mg</p> <p>Vitamin A Acetate 0.1 mg</p> <p>L-Ascorbic Acid 0.05 mg</p> <p>α-Tocopherol Disodium Phosphate 0.01 mg</p> <p>Calciferol 0.1 mg</p> <p>2-Methyl -1, 4-Naphthokine 0.01 mg</p> <p>Choline Tartrate 0.9 mg</p> <p>2-Deoxy-D-Ribose 0.5 mg</p> <p>Adenine 10 mg</p> <p>Guanine Hydrochloride 0.3 mg</p> <p>Hypoxanthin 0.3 mg</p> <p>Thymine 0.3 mg</p> <p>Uracil 0.3 mg</p> <p>Xanthine 0.3 mg</p> <p>AMP -2 Na 0.2 mg</p> <p>D-Ribose 0.5 mg</p> <p>Glutathione 0.05 mg</p> <p>Cholesterol 0.2 mg</p> <p>Polysorbate 80 5 mg</p> <p>Phenol Red 6 mg</p> <p>Other substances to be added</p> <p>Sodium Bicarbonate As Needed</p>	

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage	
<p>Sodium Bicarbonate-Free Ham's F 12 Medium "AccuDia" Ham's F 12 Medium "AccuDia"</p>	05910	100 g		<p>Dissolve 10.6 g of this powder medium in distilled 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. If not used immediately, the prepared medium solution is stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C). Before use, add appropriate amount of serum according to purpose.</p> <p>CAUTION This product contains L-glutamine and does not contain sodium bicarbonate.</p>	
Composition				Description	
<p>Per 10.6 g (1 L)</p> <p>Sodium Chloride 7,599 mg Potassium Chloride 224 mg Calcium Chloride (Anhydrate) 33.31 mg Magnesium Chloride (Hexahydrate) . . 122 mg Disodium Hydrogen Phosphate (Dihydrate) 177.97 mg Copper Sulfate (II) (Pentahydrate) . . 0.0025 mg Zinc Sulfate (Heptahydrate) 0.863 mg Iron (II) Sulfate (Heptahydrate) . . . 0.834 mg Glucose 1,802 mg L-Arginine Hydrochloride 211 mg L-Alanine 8.91 mg L-Asparagine (Monohydrate) 15.01 mg L-Aspartic Acid 13.31 mg L-Cysteine Hydrochloride Hydrate . . 35.12 mg L-Glutamic Acid 14.71 mg L-Glutamine 146 mg Glycine 7.51 mg L-Histidine Hydrochloride Hydrate . . 20.96 mg L-Isoleucine 3.94 mg L-Leucine 13.12 mg L-lysine Hydrochloride 4.48mg L-Phenylalanine 4.96 mg L-proline 34.53 mg L-Serine 10.51 mg L-Threonine 11.91 mg L-Tryptophan 2.04 mg L-Tyrosine 5.44 mg L-Valine 11.71 mg</p>				<p>D-Biotin 0.0073 mg Choline Chloride 14 mg Calcium Pantothenate 0.477 mg Folic Acid 1.32 mg Hypoxanthin 4.08 mg Myo-Inositol 18 mg Putrescine Dihydrochloride 0.161 mg Pyridoxine Hydrochloride 0.062 mg Riboflavin 0.038 mg Sodium Pyruvate 110 mg Thiamine Hydrochloride 0.377 mg Thymidine 0.727 mg Cyanocobalamin 1.36 mg Nicotinamide 0.037 mg α-Lipoic Acid 0.206 mg Linoleic Acid 0.084 mg Phenol Red 1.24 mg</p> <p>Other substances to be added Sodium Bicarbonate As Needed</p>	<p>Ham F 12 Medium "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.</p> <p>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.</p> <p>Storage This medium powder shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date 1 Year After Manufacture.</p>

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Serum-Free Medium Sodium Bicarbonate-Free SFM – 101 Medium "AccuDia" SFM -101 "AccuDia"	05963	For 1 L		<ol style="list-style-type: none"> The total amount of one bottle of basic medium (12.5 g) is completely dissolved in about 900 mL of distilled water. Lowering pH to about 6.0 with a CO₂ gas makes the product more soluble. Ten(10) mL of distilled 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 hydrogen carbonate is added (When 1 ~ 1.5g is added to 1 L of medium, the pH of the medium at 37 ° C under a 5% CO₂ 2 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 sterilize immediately by filtration. When the medium is not used immediately after preparation, the prepared medium solution is stored in a sealing container and kept in a cool, dark place (2 ~ 10 ° C). <p>CAUTION</p> <ol style="list-style-type: none"> 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.
Composition				Description
<p>[Contents of the Set]</p> <p>Basal Medium · · · · · 12.5 g (For 1 L) x 1</p> <p>Supplement A for 10 mL (For 1 L) x 1</p> <p>Supplement B · · · · · mL (For 1 L) x 1</p> <p>In 12.5g Basal Medium (For 1 L)</p> <p>Sodium Chloride · · · · · 6,000 mg</p> <p>Potassium Chloride · · · · · 400 mg</p> <p>Calcium Chloride (Anhydrate) · · · · · 100 mg</p> <p>Calcium Nitrate (Tetrahydrate): 50.4 mg</p> <p>Magnesium Sulfate (Anhydrate) · · · · · 71 mg</p> <p>Sodium Dihydrogen Phosphate (Dihydrate) · · · · · 75 mg</p> <p>Disodium Hydrogen Phosphate (Dihydrate) · · · · · 502 mg</p> <p>Sodium Selenite · · · · · 0.002 mg</p> <p>L-Arginine · · · · · 100 mg</p> <p>L-Arginine Hydrochloride · · · · · 78 mg</p> <p>L-Asparagine (Monohydrate) · · · · · 43.4 mg</p> <p>L-Aspartic Acid · · · · · 10 mg</p> <p>L-Cysteine Hydrochloride Hydrate · · · · · 15.7 mg</p> <p>L-Cystine Dihydrochloride · · · · · 32.5 mg</p> <p>L-Glutamic Acid · · · · · 10 mg</p> <p>L-Glutamine · · · · · 600 mg</p> <p>Glycine · · · · · 10 mg</p> <p>L-Histidine · · · · · 7.5 mg</p> <p>L-Histidine Hydrochloride Hydrate · · · · · 21 mg</p> <p>L-Hydroxyproline · · · · · 10 mg</p> <p>L-Isoleucine · · · · · 51 mg</p> <p>L-Leucine · · · · · 51 mg</p> <p>L-Lysine Hydrochloride · · · · · 15 mg</p> <p>L-Phenylalanine · · · · · 23.5 mg</p> <p>L-Proline · · · · · 15 mg</p> <p>L-Serine · · · · · 30 mg</p> <p>L-Threonine · · · · · 49 mg</p> <p>L-Tyrosine · · · · · 28 mg</p>			<p>L-Tryptophan · · · · · 7.5 mg</p> <p>L-Valine · · · · · 48 mg</p> <p>p-Aminobenzoic Acid · · · · · 0.5 mg</p> <p>D-Biotin · · · · · 0.2 mg</p> <p>Choline Bitartrate · · · · · 0.9 mg</p> <p>Choline Chloride · · · · · 26.5 mg</p> <p>Folic Acid · · · · · 1 mg</p> <p>myo-Inositol · · · · · 18.5 mg</p> <p>Nicotinamide · · · · · 1 mg</p> <p>Calcium Pantothenate · · · · · 0.6 mg</p> <p>Pyridoxal Hydrochloride · · · · · 0.5 mg</p> <p>Pyridoxine Hydrochloride · · · · · 0.5 mg</p> <p>Riboflavin · · · · · 0.15 mg</p> <p>Thiamine Hydrochloride · · · · · 1 mg</p> <p>Cyanocobalamin · · · · · 0.004 mg</p> <p>Glucose · · · · · 2,000 mg</p> <p>Sodium Pyruvate · · · · · 110 mg</p> <p>Succinic Acid · · · · · 37.5 mg</p> <p>Disodium Succinate (Anhydrate) · · · · · 50 mg</p> <p>Hypoxanthin · · · · · 0.025 mg</p> <p>Thymidine · · · · · 0.013 mg</p> <p>Glutathione · · · · · 0.5 mg</p> <p>Putrescine Dihydrochloride · · · · · 0.013 mg</p> <p>Dihydroxyethylglycine · · · · · 1,800 mg</p> <p>Phenolred Sodium Salt · · · · · 5 mg</p>	<p>HSFM -101 medium "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.</p> <p>Features</p> <ol style="list-style-type: none"> This medium does not contain any protein component other than insulin and transferrin, there is no problem of fluctuation of cell proliferation capacity due to lot-to-lot variation like FBS and albumin. Since the content of protein is low, a purification procedure is very easy when recovering the cell producing materials are recovered from the cell culture supernatant. Although this medium is prepared for the purpose of promoting the proliferation of mouse hybridoma cells and improving the antibody productivity, it can also be widely applied to cells of a human lymphocyte system. HAT selection is not necessary when hybridoma cells are produced using mouse myeloma P3U -1 and NS -1 cells as a parental line. The hybridoma cells can be cloned by using these cells as feeder cells. Preparation of the medium is easy because it consists of a basal medium and supplements. <p>CAUTION</p> <p>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).</p> <p>Storage</p> <p>Store in a cool and dark place (2 ~ 10 ° C).</p> <p>Expiration Date</p> <p>1 Year After Manufacture.</p>
<p>Supplement A (freeze-Dried Product)</p> <p style="text-align: right;">For 10 mL (For 1 L)</p> <p>Insulin (Cattle) · · · · · 10 mg</p> <p>Transferrin (Human Holo-Type) · · · · · 10 mg</p> <p>Supplement B (liquid)</p> <p style="text-align: right;">5 mL (For 1 L)</p> <p>Monoethanolamine · · · · · 20 mg</p>				

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Sodium Bicarbonate-Free Hanks' Solution "AccuDia" ① Hanks' Solution "AccuDia" ①	05905	100 g		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).
Composition				Description
Per 9.8 g (1 L) Sodium Chloride • • • • • 8,000 mg Potassium Chloride • • • • • 400 mg Disodium Hydrogen Phosphate (Dihydrate) • • • • • 60 mg Potassium Di-Hydrogen Phosphate (Anhydrate) • • • • • 60 mg Magnesium Sulfate (Heptahydrate) • • • • • 100 mg Magnesium Chloride (Hexahydrate) • • • • • 100 mg Calcium Chloride (Anhydrate) • • • • • 140 mg Glucose • • • • • 1,000 mg Phenol Red • • • • • 6 mg				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 Storage This powder medium shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C). Expiration Date : 2 Years After Manufacture.

Product Name	Product Code	Package	Desired Delivery Price	Usage
phenol red- and sodium bicarbonate-free Hanks' solution "AccuDia" ② Hanks' Solution "AccuDia" ②	05906	100 g		Dissolve 9.8 g of this powder medium in distilled water to make a total volume up to 1,000 mL. After complete dissolution, add a suitable amount of sodium bicarbonate to the solution (When 0.2 ~ 0.35 g of sodium hydrogen carbonate is added, the pH is 7.3 ~ 7.6 at 37 ° C in air phase.), and sterilize prepared solution by filtration immediately. If not using immediately, the medium solution shall be stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C).
Composition				Description
Per 9.8 g (For 1 L) Sodium Chloride • • • • • 8,000 mg Potassium Chloride • • • • • 400 mg Disodium Hydrogen Phosphate (Dihydrate) • • • • • 60 mg Potassium Di-Hydrogen Phosphate (Anhydrate) • • • • • 60 mg Magnesium Sulfate (Heptahydrate) • • • • • 100 mg Magnesium Chloride (Hexahydrate) • • • • • 100 mg Calcium Chloride (Anhydrate) • • • • • 140 mg Glucose • • • • • 1,000 mg				Hanks' solution "AccuDia" ② has the same composition as that of Hanks' solution "AccuDia" ① without phenol red and is used for dialysis, immunization experiments, etc. Storage This powder medium shall be stored in a sealing container and kept in a dry, cool and dark place (2 ~ 10 ° C). Expiration Date 2 Years After Manufacture.

Powder Medium

Product Name	Product Code	Package	Desired Delivery Price	Usage
Dulbecco PBS (-) powder "AccuDia" Dulbecco's PBS (-) "AccuDia"	05913	100 g		<p>1. In case of PBS (-): Dissolve 9.6 g of PBS (-) powder in distilled 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.</p> <p>2. In case of PBS (+): Dissolve 9.6 g of PBS (-) powder in distilled water to make the total volume up to 800 mL. Two hundred (200) mL of a metal salt solution [Self-preparation: 100mg of Calcium chloride (anhydrate) and 100mg of magnesium chloride (hexahydrate) are dissolved in distilled 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.</p>
Dulbecco PBS (-) powder "AccuDia" Pack Product Dulbecco's PBS (-) "AccuDia" Pack Product	08190	For 1L x 10 Packs		
	08192	For 10 L x 1Pack		
Composition				Description
<p>Per 9.6 g (1 L)</p> <p>Sodium Chloride 8,000 mg</p> <p>Potassium Chloride 200 mg</p> <p>Disodium Hydrogen Phosphate (Anhydrate) 1,150 mg</p> <p>Potassiumdi-Hydrogen Phosphate 200 mg</p> <p>Note: 1)This medium does not contain Ca + and Mg +, but phosphate can be formed and precipitated depending on the conditions of the water added.</p>				<p>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 washingsolution for cells or diluent for drugs.</p> <p>Storage</p> <p>① PBS (-) powder "AccuDia" shall be stored in a sealing container and kept in a dry, cool, and dark place (2 ~ 10 ° C).</p> <p>② The prepared PBS (-) and PBS (+) shall be stored in a sealing container and kept in a cool dark place (2 ~ 10 ° C).</p> <p>Expiration Date</p> <p>2 Years after manufacture.</p>

Product Name	Product Code	Package	Desired Delivery Price	Usage
Sterile Freeze-Dried Glutamine "AccuDia" Glutamine "AccuDia"	05908	0.3 g		<p>Dissolve one vial with 10 mL of sterile distilled water. Then, required amount of the prepared solution is added aseptically to a dissolved and sterilized autoclavable medium (ex. Eagle' s MEM medium "AccuDia" ①) .</p> <p>CAUTION</p> <p>The residual of the partially used L-glutamine solution can be used later if being freeze-preserved.</p>
Composition				Description
<p>One vial of this product contains 0.3 g of sterile-lyophilized L-glutamine.</p>				<p>Storage</p> <p>① This powder product shall be stored in a cool and dark place (2 ~ 10 ° C).</p> <p>② L-glutamine solution is usable for 6 months at -20 ° C and for 7 days at 2 ~ 10 ° C.</p> <p>Expiration Date</p> <p>2 Years After Manufacture.</p>