

Product Name

Name: DMEM/F12 1:1 mixture, with HEPES, Sodium Pyruvate, Sodium Bicarbonate, without L-Glutamine

Cat. No.: C3135-0500

Size: 500 mL

Product Description

DMEM/F12 1:1 mixture, with HEPES, Sodium Pyruvate, without L-Glutamine was originally formulated for culturing of rat neuroblastoma cells and MDCK cells. The mixture is extremely nutritious and thus supports the growth of a wide variety of cells including certain epithelial, endothelial, and granulosa cells. It does not contain any trace elements. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition

Ingredients	mg/L	Ingredients	mg/L
INORGANIC SALTS			
Calcium chloride dihydrate	154.500	Magnesium sulphate anhydrous	48.840
Copper sulphate pentahydrate	0.0013	Potassium chloride	311.800
Disodium hydrogen phosphate anhydrous	71.020	Sodium chloride	6996.000
Ferric nitrate nonahydrate	0.050	Sodium dihydrogen phosphate anhydrous	54.300
Ferrous sulphate heptahydrate	0.417	Zinc sulphate heptahydrate	0.432
Magnesium chloride hexahydrate	61.200		
AMINO ACIDS			
Glycine	18.750	L-Leucine	59.050
L-Alanine	4.450	L-Lysine hydrochloride	91.250
L-Arginine hydrochloride	147.500	L-Methionine	17.240
L-Asparagine monohydrate	7.500	L-Phenylalanine	35.480
L-Aspartic acid	6.650	L-Proline	17.250
L-Cysteine dihydrochloride	17.560	L-Serine	26.250
L-Cystine hydrochloride monohydrate	31.290	L-Threonine	53.450
L-Glutamic acid	7.350	L-Tryptophan	9.020
L-Histidine hydrochloride monohydrate	31.480	L-Tyrosine Disodium Salt	48.100
L-Isoleucine	54.470	L-Valine	52.850
Vitamins			
Choline chloride	8.980	Pyridoxine hydrochloride	0.031



D-Biotin	0.0035	Riboflavin	0.219
D-Pantothenic acid	2.240	Thiamine hydrochloride	2.170
Folic acid	2.660	Vitamin B12	0.680
Niacinamide	2.020	myo-Inositol	12.600
Pyridoxal hydrochloride	2.000		

OTHERS

D-Glucose	3151.000	Phenol red Sodium Salt	8.630
DL-Thioctic Acid	0.105	Putrescine hydrochloride	0.081
HEPES buffer	3574.500	Sodium pyruvate	110.000
Hypoxanthine	2.400	Thymidine	0.365
Linoleic acid	0.042	Sodium bicarbonate	1200.000

Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture

Procedure

1. Take a bottle from the storage at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Take appropriate volume of the product using aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

Quality Control

DMEM/F12 1:1 mixture, with HEPES, Sodium Pyruvate, without L-Glutamine is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Manufacturer

Shanghai Dr. Cell Co., Ltd.

Issue Date

February 2023

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.

