

【Product Name】

Name: DMEM/F12 1:1 mixture, with L-Glutamine and HEPES

Cat. No: C3130-0500、C3130-0100

Specifications: 500ml、100ml

【Product Description】

Dulbecco's Modified Eagle Medium /Nutrient Mixture F12 Ham (DMEM/F12 1:1 mixture) with L-Glutamine and HEPES was originally formulated for rat neuroblastoma cells and MDCK cells. The mixture is extremely nutritious and supports growth of a wide variety of cells including certain epithelial, endothelial and granulosa cells.

It does not contain trace elements. Users are advised to review the literature for recommendations regarding medium supplementation and physiological lines.

【Composition】

Ingredients mg/L

INORGANIC SALTS

Calcium chloride dihydrate	154.500
Copper sulphate pentahydrate	0.0013
Disodium hydrogen phosphate anhydrous	71.020
Ferric nitrate nonahydrate	0.050
Ferrous sulphate heptahydrate	0.417
Magnesium chloride hexahydrate	61.200
Magnesium sulphate anhydrous	48.840
Potassium chloride	311.800
Sodium chloride	6996.000
Sodium dihydrogen phosphate anhydrous	54.300
Zinc sulphate heptahydrate	0.432

AMINO ACIDS

Glycine	18.750
L-Alanine	4.450
L-Arginine hydrochloride	147.500
L-Asparagine monohydrate	7.500
L-Aspartic acid	6.650
L-Cysteine dihydrochloride	17.560
L-Cystine hydrochloride monohydrate	31.290
L-Glutamic acid	7.350
L-Glutamine	365.000
L-Histidine hydrochloride monohydrate	31.480
L-Isoleucine	54.470
L-Leucine	59.050
L-Lysine hydrochloride	91.250
L-Methionine	17.240
L-Phenylalanine	35.480
L-Proline	17.250
L-Serine	26.250
L-Threonine	53.450
L-Tryptophan	9.020
L-Tyrosine Disodium Salt	48.100
L-Valine	52.850



VITAMINS

Choline chloride	8.980
D-Biotin	0.0035
D-Pantothenic acid	2.240
Folic acid	2.660
Niacinamide	2.020
Pyridoxal hydrochloride	2.000
Pyridoxine hydrochloride	0.031
Riboflavin	0.219
Thiamine hydrochloride	2.170
Vitamin B12	0.680
myo-Inositol	12.600

OTHERS

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

【Storage and Stability】

Dulbecco's Modified Eagle Medium /Nutrient Mixture F12 Ham (DMEM/F12 1:1 mixture) with L-Glutamine and HEPES should be kept 2-8°C. The product is light -sensitive and therefore should not be left in the light. When stored in the dark under ideal conditions, the product is stable until the expiry date. As with any other liquid media formulations, deterioration of liquid media may be

recognized by any of the following characteristics, among others including:

- (a). Color Change;
- (b). Presence of clumping/flocculent debris/ granulation/ particulates\ precipitates or sediments;
- (c). Insolubility;
- (d). And/or decrease in expected performance parameters.

Any material described above should not be used and therefore discarded.

【Procedure】

- 1.Take a bottle from the defined storage conditions at 2-8°C and read the label.
- 2.Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
- 3.Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.
- 4.Antibiotics may be added if desired.

【Quality Control】

Dulbecco's Modified Eagle Medium /Nutrient Mixture F12 Ham (DMEM/F12 1:1 mixture) with L-Glutamine and HEPES is tested for sterility, pH, osmolality and endotoxin concentrations. In addition, each batch is tested for cell growth using A549.

【Precaution and Disclaimer】

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

