

【Product Name】

Name: Nutrient Mixture F-12 Ham, With L-Glutamine

Cat. No: C3134-0500

Specifications: 500ml

【Product Description】

Ham's Nutrient Mixtures were originally developed for single cell plating of near diploid Chinese hamster ovary (CHO) cells and mouse L-cells. Both F-10 and F-12 are formulated for use with or without serum, depending on the type of cells being cultured.

Ham's Nutrient Mixture F12 was originally designed for serial propagation and cloning of two CHO cell lines namely, CHD-3 and CHL-1 and mouse L cells. It is the medium of choice for the growth of cells of rodent origin and for cloning of myeloma and hybridoma cells. This medium is also the medium of choice for clonal toxicity assay using CHO cells.

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
INORGANIC SALTS	
Calcium chloride dihydrate	44.100
Copper sulphate pentahydrate	0.0025
Ferric sulphate heptahydrate	0.834
Magnesium chloride anhydrous	57.650
Potassium chloride	223.600
Sodium chloride	7599.000
Sodium bicarbonate	1176.000

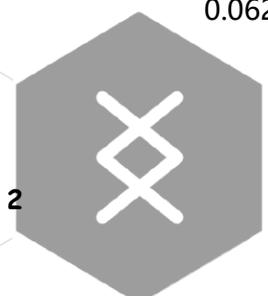
Sodium phosphate dibasic anhydrous	142.040
Zinc sulphate tetrahydrate	0.863

AMINO ACIDS

Glycine	7.500
L-Alanine	8.910
L-Arginine hydrochloride	210.700
L-Asparagine anhydrous	15.010
L-Aspartic acid	13.300
L-Cysteine hydrochloride	35.120
L-Glutamic acid	14.700
L-Glutamine	146.000
L-Histidine hydrochloride monohydrate	20.960
L-Isoleucine	3.940
L-Leucine	13.100
L-Lysine hydrochloride	36.500
L-Methionine	4.480
L-Phenylalanine	4.960
L-Proline	34.500
L-Serine	10.500
L-Threonine	11.900
L-Tryptophan	2.040
L-Tyrosine Disodium Salt	7.810
L-Valine	11.700

VITAMINS

Biotin	0.0073
Choline chloride	13.960
D-Ca-Pantothenate	0.480
Folic acid	1.320
Nicotinamide	0.037
Pyridoxine hydrochloride	0.062



Riboflavin	0.038	granulation/ particulates\ precipitates or sediments ;
Thiamine hydrochloride	0.340	
Vitamin B12	1.360	
i-Inositol	18.000	
OTHERS		(c). Insolubility;
D-Glucose	1801.600	(d). And/or decrease in expected performance parameters.
Hypoxanthine Sodium Salt	4.770	Any material described above should not be used and therefore discarded.
Linoleic acid	0.084	【Procedure】
Lipoic acid	0.210	1.Take a bottle from the defined storage conditions at 2-8°C and read the label.
Phenol red Sodium Salt	1.240	2.Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
Putrescine dihydrochloride	0.161	3.Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.
Sodium pyruvate	110.100	4.Antibiotics may be added if desired.
Thymidine	0.730	

【Storage and Stability】

Nutrient Mixture F-12 Ham, With L-Glutamine 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/

【Quality Control】

Nutrient Mixture F-12 Ham, With L-Glutamine 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.

