



Nutrient Mixture F-10 Ham

With Sodium bicarbonate
Without L-Glutamine

Product Code: AL024

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 F-10 was designed for clonal growth of CHO cells and chick embryo cells under serum free conditions. It is now widely used for culturing a variety of cells which include human diploid cells and white blood cells for chromosomal analysis and primary explants of rat, rabbit and chicken tissues.

AL024 is Nutrient Mixture F-10 Ham with sodium bicarbonate. It does not contain L-glutamine. 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 sulphate anhydrous | 74.730 |
| Potassium chloride | 285.000 |
| Potassium dihydrogen phosphate | 83.000 |
| Sodium bicarbonate | 1200.000 |
| Sodium chloride | 7400.000 |
| Sodium phosphate dibasic anhydrous | 153.700 |
| Zinc sulphate heptahydrate | 0.0288 |
| AMINO ACIDS | |
| Glycine | 7.510 |
| L-Alanine | 8.910 |
| L-Arginine hydrochloride | 211.000 |
| L-Asparagine monohydrate | 15.010 |
| L-Aspartic acid | 13.300 |
| L-Cysteine hydrochloride monohydrate | 35.130 |
| L-Glutamic acid | 14.700 |

| | |
|---------------------------------------|----------|
| L-Histidine hydrochloride monohydrate | 21.000 |
| L-Isoleucine | 2.600 |
| L-Leucine | 13.100 |
| L-Lysine hydrochloride | 29.300 |
| L-Methionine | 4.480 |
| L-Phenylalanine | 4.960 |
| L-Proline | 11.500 |
| L-Serine | 10.500 |
| L-Threonine | 3.570 |
| L-Tryptophan | 0.600 |
| L-Tyrosine disodium salt dihydrate | 2.610 |
| L-Valine | 3.500 |
| VITAMINS | |
| Biotin | 0.024 |
| Choline chloride | 0.698 |
| D-Ca-Pantothenate | 0.715 |
| Folic acid | 1.320 |
| Nicotinamide | 0.615 |
| Pyridoxine hydrochloride | 0.206 |
| Riboflavin | 0.376 |
| Thiamine hydrochloride | 1.000 |
| Vitamin B12 | 1.360 |
| i-Inositol | 0.541 |
| OTHERS | |
| D-Glucose | 1100.000 |
| Hypoxanthine sodium salt | 4.080 |
| Lipoic acid | 0.210 |
| Phenol red sodium salt | 1.300 |
| Sodium pyruvate | 110.000 |
| Thymidine | 0.730 |

Directions:

1. Add 5ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

Material required but not provided:

L-Glutamine solution 200mM (TCL012)

Quality Control:**Appearance**

Light pink colored, clear solution

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

285.00 -325.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life:

Store at 2-8°C away from bright light.

Shelf life is 18 months.

Use before expiry date given on the product label.

Disclaimer :

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