

Technical Information

MiGlutaXL Nutrient Mixture F-10 Ham With L-Alanyl-L-Glutamine and Sodium bicarbonate

Product Code: AL1024G

Application:- MiGlutaXL medium contains the stabilized dipeptide form of L-glutamine, L-alanyl-L-glutamine. MiGlutaXL medium offers several advantages over the conventional glutamine containing media. Dipeptide form prevents the intramolecular cyclization reaction, thus preventing toxic build-up of ammonia. L-alanyl-L-glutamine incorporates L-alanine that protects the alpha amino acid group. Aminopeptidases within the cell break the dipeptide, gradually releasing both L-glutamine and L-alanine for use by the cell. The gradual release of L-glutamine obviates the need to supplement L-glutamine frequently and allows liquid media to be stored at 4°C for longer periods.

AL1024G is MiGlutaXL Nutrient Mixture F-10 Ham with sodium bicarbonate and L-alanyl-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/Litre
INORGANIC SALTS	
Calcium chloride dehydrate	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-Alanyl-L-Glutamine	217.000
L-Arginine hydrochloride	211.000
L-Asparagine monohydrate	15.010
L-Aspartic acid	13.300
L-Cystine dihydrochloride	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	
D-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	1.30
Sodium pyruvate	110.000
Thymidine	0.730

Quality control

Appearance

Orangish red 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 :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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