



Product Specification

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Technical Information

MiGlutaXL Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12 Ham (DMEM/F12, 1:1 mixture)

With L-Alanyl-L-Glutamine, Sodium bicarbonate and Trace elementsWithout HEPES buffer Product Code: AL1127G

Application:- MiGlutaXL medium contains the stabilised 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°Cfor longer periods. AL1127G is MiGlutaXL DMEM/Nutrient Mixture F-12 Ham with L-alanyl-L-glutamine, sodium bicarbonate and trace elements. It does not contain HEPES buffer. 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	
Ammonium metavanadate	0.00058
Ammonium molybdate tetrahydrate	0.00618
Calcium chloride dihydrate	154.500
Copper sulphate pentahydrate	0.0013
Disodium hydrogen phosphate	71.020
Ferric nitrate nonahydrate	0.050
Ferrous sulphate heptahydrate	0.417
Magnesium chloride hexahydrate	61.200
Magnesium sulphate anhydrous	48.840
Manganese sulphate	0.000151
Nickel chloride	0.00012
Potassium chloride	311.800
Sodium bicarbonate	1200.000
Sodium chloride	6996.000
Sodium dihydrogen phosphate	54.300
Sodium metasillicate nonahydrate	0.0142
Sodium selenite	0.00519
Stannous chloride dihydrate	0.00011
Zinc sulphate heptahydrate	0.432
AMINO ACIDS	
Glycine	18.750
L-Alanine	4.450
L-Alanyl-L-Glutamine	543.000
L-Arginine hydrochloride	147.500
L-Asparagine monohydrate	7.500
L-Aspartic acid	6.650





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L-Cysteine hydrochloride monohydrate	17.560	
L-Cystine dihydrochloride	31.290	
L-Glutamic acid	7.350	
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 dihydrate	48.100	
L-Valine	52.850	
VITAMINS		
Choline chloride	8.980	
D-Biotin	0.0035	
D-Ca-Pantothenate	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	
Hypoxanthine sodium salt	2.400	
Linoleic acid	0.042	
Phenol red sodium salt	8.630	
Putrescine hydrochloride	0.081	
Sodium pyruvate	110.000	
Thymidine	0.365	

Quality control

Appearance : Red colored, clear solution

pH :7.00-7.60

Osmolality in mOsm/Kg H₂O:-290.00-330.00

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





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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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
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