

and physiological growth requirementsspecific for different cell lines.



Product Specification

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Technical Information

MiGlutaXL RPMI-1640

With L-Alanyl-L-Glutamine, HEPES buffer and Sodium bicarbonate 1X Liquid
Cell Culture Medium

Product Code: AL1060G

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°C for longer periods. AL1060G is MiGlutaXL RPMI-1640 medium supplemented with 25mM HEPES buffer, L-alanyl- L-glutamine and sodium bicarbonate. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37° C prevents the initial rise in pH that tends to occur atthe initiation of a culture and increases the buffering capacity of the medium. Users are advised to reviewthe literature for recommendations regarding medium supplementation

Composition**					
Ingredients	mg/Litre				
INORGANIC SALTS					
Calcium nitrate tetrahydrate	100.00				
Disodium hydrogen phosphate anhydrous	800.00				
Magnesium sulphate anhydrous	48.840				
Potassium chloride	400.000				
Sodium bicarbonate	2000.000				
Sodium chloride	6000.000				
AMINO ACIDS					
Glycine	10.000				
L-Alanyl-L-Glutamine	446.00				
L-Arginine hydrochloride	241.00				
L-Asparagine anhydrous	50.000				
L-Aspartic acid	20.000				
L-Cystinedihydrochloride	65.200				
L-Glutamic acid	20.000				
L-Histidine hydrochloride	20.960				
L-Hydroxyproline	20.000				
L-Isoleucine	50.000				
L-Leucine	50.000				
L-Lysine hydrochloride	40.000				
L-Methionine	15.000				
L-Phenylalanine	15.000				
L-Proline	20.000				
L-Serine	30.000				
L-Threonine	20.000				
L-Tryptophan	5.000				
L-Tyrosine disodium salt dihydrate	28.830				
L-Valine	20.000				





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Choline chloride 3.000 D-Biotin 0.200 D-Ca-Pantothenate 0.250 Folic acid 1.000 Niacinamide 1.000 Pyridoxine hydrochloride 1.000 Riboflavin 0.200 Thiamine hydrochloride 1.000 Vitamin B12 0.005 i-Inositol 35.000 p-Amino benzoic acid (PABA) 1.000 OTHERS

D-Glucose 2000.000 Glutathione reduced 1.000 HEPES Buffer 5958.00 Phenol red sodium 5.300

Quality control

Appearance

Orangish colored, clear solution.

7.00 -7.60

Osmolality in mOsm/Kg H₂O

320.00 -360.00

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 and comparing it with a control medium through minimum three subcultures

Endotoxin Content

NMT 5EU/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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any
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- Do not use the products if it fails to meet specifications for identity and performance parameters.