



# **Product Specification**

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# **Technical Information**

### MiGlutaXL RPMI-1640

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

### Product Code: AL1028G

**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. AL1028G is MiGlutaXL RPMI 1640 with L-alanyl-L- glutamine and sodium bicarbonate. 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 nitrate tetrahydrate	100.00		
Magnesium sulphate anhydrous	48.840		
Potassium chloride	400.000		
Sodium bicarbonate	2000.000		
Sodium chloride	6000.000		
Sodium phosphate dibasic anhydrous	800.000		
AMINO ACIDS			
Glycine	10.000		
L-Alanyl-L-Glutamine	445.000		
L-Arginine hydrochloride	241.000		
L-Asparagine	50.000		
L-Aspartic acid	20.000		
L-Cystine dihydrochloride	65.200		
L-Glutamic acid	20.000		
L-Histidine hydrochloride monohydrate	20.200		
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 L	30.000		
L-Threonine	20.000		
L-Tryptophan	5.000		
L-Tyrosine disodium salt	28.830		





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L-Valine	20.000
VITAMINS	
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
Phenol red sodium salt	5.300
1	

# **Quality control**

#### Appearance

Orangish red colored, clear solution.

рН

7.00 -7.60

### Osmolality in mOsm/Kg H<sub>2</sub>O

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 5EU/ml

## Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 months.

Use before expiry date given on the product label.





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### 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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- Do not use the products if it fails to meet specifications for identity and performance parameters.