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Technical Datasheet

RPMI 1640

With L-Alanyl-L-Glutamine and Sodium bicarbonate

Product Code: AL028G

Product Description:

HiGlutaXL™ medium contains the stabilised dipeptide form of L-glutamine, L-alanyl-L-glutamine.

HiGlutaXL™ medium offers several advantages over the conventional glutamine containing media. Dipeptide form prevents the intramolecular cyclization reaction, thus prevent-ing 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.

AL028G is HiGlutaXL™ RPMI1640 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/L
Calcium nitrate tetrahydrate	100.00
Magnesium sulphate anhydrous	48.84
Potassium chloride	400.00
Sodium chloride	6,000.00
Sodium phosphate, dibasic anhydrous	800.00
D-Glucose	2,000.00
Glutathione reduced	1.00
Phenol red Na salt	5.30
L-Arginine Hydrochloride	241.00
L-Asparagine	50.00
L-Aspartic acid	20.00
L-Cystine dihydrochloride	65.20
L-Glutamic acid	20.00
L-Alanyl-L-Glutamine	446.00
Glycine	10.00
L-Histidine Hydrochloride monohydrate	20.96
L-Hydroxyproline	20.00
L-Isoleucine	50.00
L-Leucine	50.00
L-Lysine hydrochloride	40.00
L-Methionine	15.00
L-Phenylalanine	15.00
L-Proline	20.00
L-Serine	30.00
L-Threonine	20.00
L-Tryptophan	5.00
L-Tyrosine (Na Salt)	28.83
L-Valine	20.00
D-Biotin	0.20
D-Ca-Pantothenate	0.25
Choline chloride	3.00
Folic acid	1.00
i-Inositol	35.00
Niacinamide	1.00
p-Amino benzoic acid (PABA)	1.00
Thiamine hydrochloride	1.00
Vitamin B12	0.005
Pyridoxine hydrochloride	1.00
Riboflavin	0.20
Sodium bicarbonate	2000.00

Quality Control:

Appearance
Orangish red colored, clear solution

pH
7.00 - 7.60

Osmolality in mOsm/Kg H_2O
260.00 - 300.00

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.

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