

Technical Information

**MiGlutaXL Dulbecco's Modified Eagle Medium, High Glucose
With 4.5gms Glucose per litre, L-Alanyl-L-Glutamine and Sodium bicarbonate Without Sodium pyruvate**

Product Code: AL1066G

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.

AL1066G is MiGlutaXL Dulbecco's Modified Eagle Medium with 4.5gms Glucose L-alanyl-L-glutamine and sodium bicarbonate. It does not contain sodium pyruvate. 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 dihydrate	265.000
Ferric nitrate nonahydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	3700.00
Sodium chloride	6400.000
Sodium dihydrogen phosphate anhydrous	109.000
AMINO ACIDS	
Glycine	30.000
L-Arginine hydrochloride	84.000
L-Cystinedihydrochloride	62.570
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	105.00
L-Leucine	105.00
L-Lysine hydrochloride	146.00
L-Methionine	30.000
L-Phenylalanine	66.000
L-Serine	42.000
L-Threonine	95.000
L-Tryptophan	16.000
L-Tyrosine disodium salt dihydrate	103.790
L-Valine	94.000
L-Alanyl-L-Glutamine	868.000
VITAMINS	
Choline chloride	4.000
D-Ca-Pantothenate	4.000

Folic acid	4.000
Nicotinamide	4.000
Pyridoxal hydrochloride	4.000
Riboflavin	0.400
Thiamine hydrochloride	4.000
i-Inositol	7.200
OTHERS	
D-Glucose	4500.00
Phenol red sodium salt	15.900

Quality control

Appearance

Red colored, clear solution

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

330.0 -370.00

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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