HiGlutaXL™ Minimum Essential Medium Eagle (Alpha modification)

With L-Alanyl-L-Glutamine, Sodium bicarbonate
Without Deoxyribonucleosides, Ribonucleosides and Phenol red
1X Liquid Cell Culture Medium

Product Code: AL255G

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 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.

AL255G is alpha modification of HiGlutaXL™ Minimum Essential Medium Eagle with L-alanyl-L-glutamine, sodium bicarbonate and non-essential amino acid. It is devoid of deoxyribonucleosides, ribonucleosides and phenol red. 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
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**INORGANIC SALTS**
Calcium chloride dihydrate | 265.000
Magnesium sulphate anhydrous | 97.720
Potassium chloride | 400.000
Sodium bicarbonate | 2200.000
Sodium chloride | 6800.000
Sodium dihydrogen phosphate anhydrous | 122.000
**AMINO ACIDS**
Glycine | 50.000
L-Alanine | 25.000
L-Alanyl-L-Glutamine | 434.000
L-Arginine hydrochloride | 126.000
L-Asparagine monohydrate | 44.000
L-Aspartic acid | 30.000
L-Cysteine hydrochloride | 100.000
L-Cystine dihydrochloride | 31.300
L-Glutamic acid | 75.000
L-Histidine hydrochloride monohydrate | 42.000
L-Isoleucine | 52.000
L-Leucine | 52.000
L-Lysine hydrochloride | 72.500
L-Methionine | 15.000
L-Phenylalanine | 32.000
L-Proline | 40.000
L-L-phenylalanine | 25.000
L-Serine | 48.000
L-Threonine | 10.000
L-Tryptophan | 46.000
L-Valine | 51.900
**FUTURE**
Choline chloride | 1.000
D-Biotin | 0.100
D-Ca-Pantothenate | 1.000
Folic acid | 1.000
L-Ascorbic acid | 50.000
Nicotinamide | 1.000
Pyridoxal hydrochloride | 1.000
Riboflavin | 0.100
Thiamine hydrochloride | 1.000
Vitamin B12 | 1.360
i-Inositol | 2.000
**OTHERS**
D-Glucose | 1000.000
Lipoic acid | 0.200
Sodium pyruvate | 110.000

Quality Control:

Appearance
Clear, colourless solution

pH
7.00 - 7.60

Osmolality in mOsm/Kg H2O
280.00 - 320.00

Please refer disclaimer overleaf
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.

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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