

HiGlutaXL™ Minimum Essential Medium Eagle (Alpha modification)

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

Product Code: AL080G

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.

AL080G is alpha modification of HiGlutaXL™ Minimum Essential Medium Eagle with L-alanyl-L-glutamine, NEAA, deoxyribonucleosides, ribonucleosides 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 |
|---------------------------------------|----------|
| 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 | 50.000 |
| 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-Serine | 25.000 |
| L-Threonine | 48.000 |
| L-Tryptophan | 10.000 |
| L-Tyrosine disodium salt | 51.900 |
| L-Valine | 46.000 |
| VITAMINS | |
| 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 | |
| 2' Deoxyadenosine | 10.000 |
| 2' Deoxycytidine hydrochloride | 11.000 |
| 2' Deoxyguanosine | 10.000 |
| Adenosine | 10.000 |
| Cytidine | 10.000 |
| D-Glucose | 1000.000 |
| Guanosine | 10.000 |
| Lipoic acid | 0.200 |
| Phenol red sodium salt | 11.000 |
| Sodium pyruvate | 110.000 |
| Thymidine | 10.000 |
| Uridine | 10.000 |

Quality Control:

Appearance

Orangish red colored, clear solution.

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

280.00 -320.00

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.

Revision : 1 / 2011

Disclaimer :

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