

# HiGlutaXL™ Minimum Essential Medium Eagle (MEM)

With L-Alanyl-L-Glutamine, Earle's salt and Sodium bicarbonate

Without NEAA

1X Liquid Cell Culture Medium

**Product Code: AL020G**

## Product Description :

HiGlutaXL™ media contain the stabilized dipeptide form of L-glutamine, L-alanyl-L-glutamine. HiGlutaXL™ media offer 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.

AL020G is HiGlutaXL™ Minimum Essential Medium Eagle with L-alanyl-L-glutamine, Earle's salts and sodium bicarbonate. It does not contain non-essential amino acids. 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
<b>INORGANIC SALTS</b>	
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
<b>AMINO ACIDS</b>	
L-Arginine hydrochloride	126.000
L-Cystine dihydrochloride	31.300
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-Threonine	48.000
L-Tryptophan	10.000
L-Tyrosine disodium salt	51.900
L-Valine	46.000
<b>VITAMINS</b>	
Choline chloride	1.000
D-Ca-Pantothenate	1.000
Folic acid	1.000
Nicotinamide	1.000
Pyridoxal hydrochloride	1.000
Riboflavin	0.100
Thiamine hydrochloride	1.000
i-Inositol	2.000
<b>OTHERS</b>	
D-Glucose	1000.000
L-Alanyl-L-Glutamine	434.000
Phenol red sodium salt	11.000

## Quality Control:

### Appearance

Orangish red colored, clear solution.

### pH

7.00 -7.60

### Osmolality in mOsm/Kg H2O

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 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 / 2012

### **Disclaimer :**

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