HiGlutaXL™ Dulbecco's Modified Eagle Medium, High Glucose

With L-Alanyl-L-Glutamine and Sodium bicarbonate
Without Sodium pyruvate
1X Liquid Cell Culture Medium

Product Code: AL066G

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.

AL066G is HiGlutaXL™ Dulbecco’s Modified Eagle Medium with 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/L

INORGANIC SALTS
Calcium chloride dihydrate  265.000
Ferric nitrate nonahydrate  0.100
Magnesium sulphate anhydrous  97.720
Potassium chloride  400.000
Sodium bicarbonate  3700.000
Sodium chloride  6400.000
Sodium dihydrogen phosphate anhydrous  109.000

AMINO ACIDS
Glycine  30.000
L-Arginine hydrochloride  84.000
L-Cystine dihydrochloride  62.570
L-Histidine hydrochloride monohydrate  42.000
L-Isoleucine  105.000
L-Leucine  105.000
L-Lysine hydrochloride  146.000
L-Methionine  30.000
L-Phenylalanine  66.000
L-Serine  42.000
L-Threonine  95.000
L-Tryptophan  16.000
L-Tyrosine disodium salt  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  4500.000
Phenol red sodium salt  15.900

Quality Control:
Appearance
Orangish red colored, clear solution.

pH
7.00 - 7.60

Osmolality in mOsm/Kg H2O
330.00 - 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 and comparing it with a control medium through minimum three subcultures.

Endotoxin Content
NMT 5EU/ml

Please refer disclaimer overleaf
**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.