HiGlutaXL™ Dulbecco's Modified Eagle Medium, High Glucose
With L-Alanyl-L-Glutamine, Sodium pyruvate and Sodium bicarbonate
1X Liquid Cell Culture Medium

Product Code: AL007G

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.

AL007G is HiGlutaXL™ Dulbecco’s Modified Eagle Medium with 4.5gms glucose per liter, L-alanyl-L-glutamine, sodium pyruvate 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
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-Alanyl-L-Glutamine 868.000
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

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
Sodium pyruvate 110.000

Quality Control:

Appearance
Red colored, clear solution.

pH
7.00 - 7.60

Osmolality in mOsm/Kg H2O
320.00 - 360.00

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.

Please refer disclaimer overleaf
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.

Disclaimer:
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