



Product Specification

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Technical Information

MiGlutaXL Dulbecco's Modified EagleMedium / Nutrient Mixture F-12 Ham (DMEM / F12, 1:1 Mixture)

With L-Alanyl-L-Glutamine and 1.2gms per litre Sodium bicarbonate Without HEPES buffer and Trace elements

Product Code: AL1273G

Application:- MiGlutaXL medium contains the stabilised dipeptide form of L-glutamine, L-alanyl-L-glutamine. MiGlutaXL 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.

AL1273G is MiGlutaXL Dulbecco's Modified Eagle Medium/ Nutrient Mixture F-12 Ham (DMEM / F12,1:1 Mixture) with 1.2gms per litre Sodium bicarbonateand L-alanyl-L-glutamine. Users are advised to reviewthe literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

| Composition** | | |
|---------------------------------------|----------|--|
| Ingredients | mg/Litre | |
| INORGANIC SALTS | | |
| Calcium chloride dihydrate | 154.500 | |
| Copper sulphate pentahydrate | 0.0013 | |
| Disodium hydrogen phosphate | 71.020 | |
| Ferric nitrate nonahydrate | 0.050 | |
| Ferrous sulphate heptahydrate | 0.417 | |
| Magnesium chloride hexahydrate | 61.200 | |
| Magnesium sulphate anhydrous | 48.840 | |
| Manganese sulphate | 0.000151 | |
| Potassium chloride | 311.800 | |
| Sodium bicarbonate | 1200.000 | |
| Sodium chloride | 6996.00 | |
| Sodium dihydrogen phosphate | 54.300 | |
| Zinc sulphate heptahydrate | 0.432 | |
| AMINO ACIDS | | |
| Glycine | 18.750 | |
| L-Alanine-L-Glutamine | 543.0 | |
| L-Arginine hydrochloride | 147.500 | |
| L-Asparagine monohydrate | 7.500 | |
| L-Aspartic acid | 6.650 | |
| L-Cysteine hydrochloride monohydrate | 17.560 | |
| L-Cystine dihydrochloride | 31.290 | |
| L-Glutamic acid | 7.350 | |
| L-Histidine hydrochloride monohydrate | 31.480 | |





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| L-Isoleucine | 54.470 |
|------------------------------------|---------|
| L-Leucine | 59.050 |
| L-Lysine hydrochloride | 91.250 |
| L-Methionine | 17.240 |
| L-Phenylalanine | 35.480 |
| L-Proline | 17.250 |
| L- Serine | 26.250 |
| L-Threonine | 53.450 |
| L-Tryptophan | 9.020 |
| L-Tyrosine disodium salt dihydrate | 48.100 |
| L-Valine | 52.850 |
| VITAMINS | |
| Choline chloride | 8.980 |
| D-Biotin | 0.0035 |
| D-Ca-Pantothenate | 2.240 |
| Folic acid | 2.660 |
| Niacinamide | 2.020 |
| Pyridoxal hydrochloride | 2.000 |
| Pyridoxine hydrochloride | 0.031 |
| Riboflavin | 0.219 |
| Thiamine hydrochloride | 2.170 |
| Vitamin B12 | 0.680 |
| myo-Inositol | 12.600 |
| OTHERS | |
| D-Glucose | 3151.00 |
| DL-Thioctic acid | 0.105 |
| Hypoxanthine sodium salt | 2.400 |
| Linoleic acid | 0.042 |
| Phenol red sodium salt | 8.630 |
| Putrescine hydrochloride | 0.081 |
| Sodium pyruvate | 110.000 |
| Thymidine | 0.365 |

Quality control

Appearance :

Orangish red colored Clear solution.

pH :7.00-7.60

Osmolality in mOsm/Kg H₂O:-300.00-340.00

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 .

Endotoxin Content:

NMT 1EU/ml





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Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 months. Use before expiry date given on the product label.

Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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