

## HiGlutaXL™ Nutrient Mixture F-12 Ham

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

**Product Code: AL025G**

### 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.

AL025G is HiGlutaXL™ Nutrient Mixture F-12 Ham with L-alanyl-L-glutamine 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     |
|------------------------------------|----------|
| <b>INORGANIC SALTS</b>             |          |
| Calcium chloride dihydrate         | 44.100   |
| Copper sulphate pentahydrate       | 0.0025   |
| Ferric sulphate heptahydrate       | 0.834    |
| Magnesium chloride anhydrous       | 57.650   |
| Potassium chloride                 | 223.600  |
| Sodium bicarbonate                 | 1176.000 |
| Sodium chloride                    | 7599.000 |
| Sodium phosphate dibasic anhydrous | 142.040  |
| Zinc sulphate tetrahydrate         | 0.863    |
| <b>AMINO ACIDS</b>                 |          |
| Glycine                            | 7.500    |
| L-Alanine                          | 8.910    |
| L-Alanyl-L-Glutamine               | 217.000  |

|                                       |          |
|---------------------------------------|----------|
| L-Arginine hydrochloride              | 210.700  |
| L-Asparagine anhydrous                | 15.010   |
| L-Aspartic acid                       | 13.300   |
| L-Cysteine hydrochloride              | 35.120   |
| L-Glutamic acid                       | 14.700   |
| L-Histidine hydrochloride monohydrate | 20.960   |
| L-Isoleucine                          | 3.940    |
| L-Leucine                             | 13.100   |
| L-Lysine hydrochloride                | 36.500   |
| L-Methionine                          | 4.480    |
| L-Phenylalanine                       | 4.960    |
| L-Proline                             | 34.500   |
| L-Serine                              | 10.500   |
| L-Threonine                           | 11.900   |
| L-Tryptophan                          | 2.040    |
| L-Tyrosine disodium salt              | 7.810    |
| L-Valine                              | 11.700   |
| <b>VITAMINS</b>                       |          |
| Biotin                                | 0.0073   |
| Choline chloride                      | 13.960   |
| D-Ca-Pantothenate                     | 0.480    |
| Folic acid                            | 1.320    |
| Nicotinamide                          | 0.037    |
| Pyridoxine hydrochloride              | 0.062    |
| Riboflavin                            | 0.038    |
| Thiamine hydrochloride                | 0.340    |
| Vitamin B12                           | 1.360    |
| i-Inositol                            | 18.000   |
| <b>OTHERS</b>                         |          |
| D-Glucose                             | 1801.600 |
| Hypoxanthine sodium salt              | 4.770    |
| Linoleic acid                         | 0.084    |
| Lipoic acid                           | 0.210    |
| Phenol red sodium salt                | 1.240    |
| Putrescine dihydrochloride            | 0.161    |
| Sodium pyruvate                       | 110.100  |
| Thymidine                             | 0.730    |

## **Quality Control:**

### **Appearance**

Orangish red colored, clear solution.

### **pH**

7.00 -7.60

### **Osmolality in mOsm/Kg H<sub>2</sub>O**

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 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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