



## **Product Specification**

cdhfinechemical.com

## **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	





# **Product Specification**

cdhfinechemical.com

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 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 .

Endotoxin Content:

NMT 1EU/ml





# **Product Specification**

cdhfinechemical.com

#### 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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.