CDH

Product Specification

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Technical Information

MiGlutaXL Medium 199

With L-Alanyl-L-Glutamine, Earle's Salts and Sodium bicarbonate

Product Code: AL1014G

Application:- MiGlutaXL medium contains the stabilised dipeptide form ofL-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-Lglutamine 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 Lglutamine obviates the needto supplement L-glutamine frequently and allows liquid media to be stored at 4°C for longer periods. AL1014G is MiGlutaXL Medium 199 with L-alanyl-L- Glutamine, Earle's salts 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/Litre
INORGANIC SALTS	
Calcium chloride dihydrate	265.000
Ferric nitrate nonahydrate	0.720
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium acetate anhydrous	50.000
Sodium bicarbonate	2200.00
Sodium chloride	6800.00
Sodium phosphate monobasic	122.00
AMINO ACIDS	
Glycine	50.000
L-Alanine	25.000
L-Alanyl-L-Glutamine	148.782
L-Arginine hydrochloride	70.000
L-Aspartic acid	30.000
L-Cysteinehydrochloride monohydrate	0.100
L-Cystine dihydrochloride	26.000
L-Glutamic acid	67.000
L-Histidine hydrochloride monohydrate	22.000
Hydroxyproline	10.000
L-Isoleucine	20.000
L-Leucine	60.000
L-Lysine hydrochloride	70.000
L-Methionine	15.000
L-Phenylalanine	25.000
L-Proline	40.000
L-Serine	25.000

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L-Threonine	30.00
L-Tryptophan	10.00
L-Tyrosine disodium salt dihydrate	57.00
L-Valine	25.00
VITAMINS	
Ascorbic acid	0.050
Calciferol	0.100
Choline chloride	0.500
D-Ca-Pantothenate	0.010
DL-Tocopherolphosphate disodiumsalt	0.010
Folic acid	0.010
Menadione	0.010
Nicotinamide	0.025
Nicotinic acid	0.025
Pyridoxal hydrochloride	0.025
Pyridoxine hydrochloride	0.025
Retinol acetate	0.140
Riboflavin	0.010
Thiamine hydrochloride	0.010
i-Inositol	0.05
p-Amino benzoic acid (PABA)	0.050
OTHERS	
Adenine sulphate	10.000
Adenosine monophosphate	0.200
Adenosine triphosphate	1.000
Cholesterol	0.200
Deoxyribose	0.5000
Glucose	1000.0
Glutathione reduced	0.050
Guanine hydrochloride	0.300
Hypoxanthine sodium salt	0.354
Phenol red sodium salt	15.00
Polysorbate 80	4.900
Ribose	0.500
Thymine	0.300
Uracil	0.300
Xanthine	0.344

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Quality Control

Appearance

Orangish red colored, clear solution.

pH

7.00 -7.60

Osmolality in mOsm/Kg H_2O

280.00 – 320.00

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

Storage and Shelf Life

Store at 2-8ºC 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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