

Technical Information

HybridoXL Medium

With L-Glutamine, HEPES buffer, Insulin and Sodium bicarbonate 1X Liquid Cell Culture Medium

Product Code: AL1206A

Application:- HybridoXL™ Medium is a medium specially developed for propagation of hybridomas and other fastidious cell lines. It is a modified mixture of Dulbecco's Modified Eagle Medium and NCTC 135 supplemented with insulin. On supplementation with 10% fetal bovine serum it supports rapid growth of many hybridoma cell lines. AL1206A is HybridoXL™ Medium with L-glutamine, HEPES buffer, insulin and sodium bicarbonate. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C, prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering capacity of the medium. 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 anhydrous	191.400
Ferric nitrate nonahydrate	0.087
Magnesium sulphate anhydrous	93.470
Potassium chloride	382.800
Sodium acetate trihydrate	4.350
Sodium bicarbonate	1500.00
Sodium chloride	6159.600
Sodium glucuronate monohydrate	0.1566
Sodium phosphate monobasic monohydrate	120.930
AMINO ACIDS	
Glycine	33.800
L-Alanine	10.480
L-Arginine hydrochloride	75.790
L-Asparagine monohydrate	12.290
L-Aspartic acid	12.430
L-Cystine dihydrochloride	55.630
L-Glutamic acid	13.510
L-Glutamine	773.930
L-Histidine hydrochloride monohydrate	38.860
L-Hydroxyproline	0.356
L-Isoleucine	92.920
L-Leucine	93.130
L-Lysine hydrochloride	130.360
L-Methionine	26.490
L-Ornithine hydrochloride	0.819
L-Phenylalanine	58.860
L-Proline	10.540
L-Serine	46.610
L-Threonine	84.300

L-Tryptophan	15.440
L-Tyrosine disodium salt	92.360
L-Valine	83.960
Taurine	0.364
VITAMINS	
Ascorbic acid	4.350
Biotin	0.00218
Choline chloride	3.588
D-Ca-Pantothenate	3.482
Folic acid	3.482
Menadione	0.0218
Niacinamide	3.485
Nicotinic acid	0.00548
Pyridoxal hydrochloride	3.485
Pyridoxine hydrochloride	0.00548
Riboflavin	3.485
Thiamine hydrochloride	0.00218
Vitamin A Alcohol	0.0218
Vitamin B-12	0.870
Vitamin D-2	0.0218
α -Tocopherol phosphate	0.00218
i-Inositol	6.274
p-Aminobenzoic acid (PABA)	0.0109
OTHERS	
2-Deoxyadenosine	0.870
2-Deoxycytidine hydrochloride	0.870
2-Deoxyguanosine	0.870
5-Methylcytosine	0.0087
Coccarboxylase	0.087
Coenzyme A	0.217
D-Glucose	957.000
D-Glucuronolactone	0.157
FAD disodium dihydrate	0.087
Glutathione reduced	0.870
HEPES buffer	2073.210
Insulin	6.960
NAD DPN	0.609
NADP TPN	0.087
Oxaloacetic acid	114.840
Phenol red	14.790
Sodium pyruvate	57.420
Thymidine	0.870
Tween 80	1.087
Uridine-5-triphosphate	0.087

Quality control

Appearance :

Red colored, clear solution

pH :

7.00-7.60

Osmolality in mOsm/Kg H₂O:-

260.00 -300.00

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 2-8°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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