

Technical Information

MCDB 131 Medium

With Trace elements, L-Glutamine and Sodium bicarbonate 1X Liquid Cell Culture Medium

Product Code: AL1133A

Application:-MCDB media were developed for the culture of specific cell types without a serum supplement. The media were supplemented with growth factors, hormones, trace elements, or low levels of dialyzed fetal bovine serum protein (FBSP). Each MCDB medium was formulated for a specific cell type. MCDB 105 and 110 were formulated for rapid clonal growth of normal human diploid cells. MCDB 131 medium was originally developed for the clonal growth of human micro-vascular endothelial cells (HMVEC). MCDB 151, 201 and 302 were originally developed for human keratinocytes, clonal growth of chick embryo fibroblasts and CHO cells.

AL1133A is MCDB 131 with trace elements, sodium bicarbonate and L-glutamine. 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	
Ammonium metavanadate	0.0006
Ammonium molybdatetetrahydrate	0.0037
Calcium chloride dihydrate	235.200
Cupric sulphate pentahydrate	0.0012
Disodium hydrogen phosphate anhydrous	71.000
Ferrous sulphate heptahydrate	0.278
Magnesium sulphate anhydrous	1204.000
Manganese sulphate	0.00015
Molybdic acid tetrahydrate (ammonium)	0.0037
Nickel chloride hexahydrate	0.000071
Potassium chloride	298.200
Sodium bicarbonate	1180.000
Sodium chloride	6428.400
Sodium metasillicatenonahydrate	2.842
Sodium selenite	0.0052
Zinc sulphate heptahydrate	0.0003
AMINO ACIDS	
Glycine	2.250
L-Alanine	2.670
L-Arginine hydrochloride	63.210
L-Asparagine monohydrate	15.010
L-Aspartic acid	13.310
L-Cysteine hydrochloride dihydrate	35.120
L-Glutamic acid	44.130
L-Glutamine	1461.000
L-Histidine hydrochloride monohydrate	41.920
L-Isoleucine	65.600

L-Leucine	131.200
L-Lysine hydrochloride	182.600
L-Methionine	14.920
L-Phenylalanine	33.040
L-Proline	11.510
L-Serine	31.530
L-Threonine	11.910
L-Tryptophan	4.080

VITAMINS

L-Tyrosine disodium salt dihydrate	22.520
L-Valine	117.100

VITAMINS

Choline chloride	13.960
D-Biotin	0.0073
D-Ca-Pantothenate	11.915
Folic acid (Calcium)	0.5115
Nicotinamide	6.105
Pyridoxine hydrochloride	2.056
Riboflavin	0.0038
Thiamine hydrochloride	3.373
Vitamin B12	0.0136
myo-Inositol	7.208

OTHERS

Adenine hydrochloride	0.1716
D-Glucose	1000.000
Phenol red sodium salt	12.421
Putrescine dihydrochloride	0.0002
Sodium pyruvate	110.000
Thioctic Acid	0.0021
Thymidine	0.0242

Quality Control

Appearance

Orangish red colored, clear solution.

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

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 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 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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