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Technical Datasheet

MCDB 131 Medium

With Trace elements, L-Glutamine and Sodium bicarbonate

Product Code: AL133A

Product Description:

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.

AL133A 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/L
INORGANIC SALTS	
Ammonium metavanadate	0.0006
Ammonium molybdate tetrahydrate	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 metasillicate nonahydrate	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 monohydrate	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
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
Folinic 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 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.

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