

Technical Information

RPMI-1640

With 1mM Sodium Pyruvate, 2mM L-Glutamine, 4.5gms Glucose/lit and 2.0gms/lit Sodium bicarbonate without HEPES Buffer

Product Code: AL1199A

Application:- Roswell Park Memorial Institute (RPMI) media are a series of media developed by Moore et al for the culture of human normal and neoplastic cells in vitro. RPMI1640 is the most commonly used medium in the series A modification of McCoy's 5A medium, the medium was specifically designed to support the growth of human lymphoblastoid cells in suspension culture. Presently the medium is extensively used for a wide range of anchorage dependant cell lines. The medium needs to be supplemented with 5-20% fetal bovine serum. The medium is also known to support growth of cells in the absence of serum. AL1199A is RPMI 1640 with 1mM sodium pyruvate, 2mM L-glutamine, 4.5gms per litre glucose, 2.0gms per litre sodium bicarbonate. It does not contain HEPES buffer. 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 nitrate tetrahydrate	100.000
Magnesium sulphate anhydrous	48.840
Potassium chloride	400.00
Sodium chloride	6000.00
Sodium bicarbonate	2000.00
Sodium phosphate dibasic anhydrous	800.00
AMINO ACIDS	
Glycine	10.000
L-Arginine hydrochloride	241.00
L-Asparagine	50.000
L-Aspartic acid	20.000
L-Cysteine dihydrochloride	65.200
L-Glutamic Acid	20.000
L-Glutamine	300.000
L-Histidine hydrochloride monohydrate	20.960
L-Hydroxyproline	20.000
L-Isoleucine	50.000
L-Leucine	50.000
L-Lysine hydrochloride	40.000
L-Methionine	15.000
L-Phenylalanine	15.000
L-Proline	20.000
L-Serine	30.000
L-Threonine(Allo free)	20.000
L-Tryptophan	5.000
L-Tyrosine disodium salt	28.830
L-Valine	20.000

VITAMINS

Choline chloride	3.000
D-Biotin	0.200
D-Ca-Pantothenate	0.250
Folic acid	1.000
Niacinamide	1.000
Pyridoxine hydrochloride	1.000
Riboflavin	0.200
Thiamine hydrochloride	1.000
Vitamin B12	0.005
i-Inositol	35.000
p-Amino benzoic acid (PABA)	1.000

OTHERS

D-Glucose	4500.00
Glutathione reduced	1.000
Sodium pyruvate	110.000

Quality control

Appearance : Orange coloured, clear solution

pH : 7.00-7.60

Osmolality in mOsm/Kg H₂O:-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

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.
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