RPIM-1640
With Sodium bicarbonate
Without L-Glutamine and Phenol red
1X Liquid Cell Culture Medium

Product Code: AL120

Product Description:
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. RPMI 1640 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.

AL120 is RPMI 1640 with sodium bicarbonate. It does not contain L-glutamine and phenol red. 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
Calcium nitrate tetrahydrate 100.000
Magnesium sulphate anhydrous 48.840
Potassium chloride 400.000
Sodium bicarbonate 2000.000
Sodium chloride 6000.000
Sodium phosphate dibasic anhydrous 800.000

AMINO ACIDS
Glycine 10.000
L-Arginine hydrochloride 241.000
L-Asparagine anhydrous 50.000
L-Aspartic acid 20.000
L-Cystine dihydrochloride 65.200
L-Glutamic acid 20.000
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 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 2000.000
Glutathione reduced 1.000

Directions:
1. Add 10.3 ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

Material required but not provided:
L-Glutamine solution 200mM (TCL012)

Quality Control:

Appearance
Clear, colourless 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 1EU/ml

Storage and Shelf Life:
Store at 2-8°C away from bright light.
Shelf life is 18 months.
Use before expiry date given on the product label.

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