RPMI-1640
With L-Glutamine and Sodium bicarbonate
1X Liquid Cell Culture Medium

Product Code: AL028A

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.

AL028A is RPMI 1640 with L-glutamine and sodium bicarbonate. 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
L-Glycine 10.000
L-Arginine hydrochloride 241.000
L-Asparagine 50.000
L-Aspartic acid 20.000
L-Cystine 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 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
Nicinamide 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
Phenol red sodium salt 5.300

Quality Control:
Appearance
Orangish red colored, clear solution.

pH
7.00 - 7.60

Osmolality in mOsm/Kg H2O
290.00 - 330.00

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.

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Disclaimer:

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Revision : 1 / 2011