



# **Product Specification**

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# **Technical Information**

## **RPMI-1640**

With Sodium bicarbonate Without Folic acid and L-Glutamine 1X Liquid Cell Culture Medium

### Product Code: AL1028F

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. 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.

AL1028F is RPMI 1640 with sodium bicarbonate. It does not contain L-glutamine and folic acid. 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
Disodium hydrogen phosphate anhydrous	800.000
Magnesium sulphate anhydrous	48.840
Potassium chloride	400.000
Sodium bicarbonate	2000.000
Sodium chloride	6000.000
AMINO ACIDS	
Glycine	10.000
L-Arginine hydrochloride	241.000
L-Asparagine	50.000
L-Aspartic acid	20.000
L-Cystinedihydrochloride	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 sodium salt	28.830
L-Valine	20.000
VITAMINS	
Choline chloride	3.000

# Animal Cell Culture



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D-Biotin	0.200
D-Ca-Pantothenate	0.250
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
Phenol red sodium salt	5.300

### Methodology

1. Add 10.3ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

### Material required but not provided

L-Glutamine solution 200mM (TCL1012)

#### Quality control

#### Appearance

Orangish red colored, clear solution.

рΗ

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 18 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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