



## **Product Specification**

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## **Technical Information**

#### **RPMI-1640**

w/ 2mM L-Glutamine, 4.5gms Glucose per liter, 10mM HEPES buffer, and 1.5gms per liter Sodium bicarbonate w/o Sodium pyruvate

Product Code: AL1223S

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. AL1223S is modified RPMI-1640 medium supplemented with L-glutamine, 4.5gms glucose, 10mM HEPES buffer and sodium bicarbonate. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering capacity of the medium. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines. It does not contain sodium pyruvate.

Composition**				
Ingredients	mg/Litre			
INORGANIC SALTS				
Calcium nitrate tetrahydrate	100.000			
Magnesium sulphate anhydrous	48.840			
Potassium chloride	400.000			
Sodium bicarbonate	1500.000			
Sodium chloride	6000.000			
Sodium phosphate dibasic anhydrous	800.000			
AMINO ACIDS				
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			
<b>L</b> -Glutamine	300.000			
L-Histidine hydrochloride	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 sodium salt	28.830			
L-Valine	20.000			





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VITAMIN	S
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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 4500.000
Glutathione reduced 1.000
HEPES Buffer 2383.000
Phenol red sodium salt 5.300

## **Quality Control**

#### Appearance

Orangish red colored, clear solution.

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7.00 -7.60

#### Osmolality in mOsm/Kg H<sub>2</sub>O

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.

#### **Endotoxin Content**

NMT 1EU/ml

## Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 months.

### Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any
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