



Product Specification

cdhfinechemical.com

Technical Information

RPMI-1640

With 3.05mM L-Glutamine, 10mM HEPES buffer and 2gms per litre Sodium bicarbonate Product Code: AL1214A

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. AL1214A is modified RPMI-1640 medium supplemented with 3.05mM L-glutamine, 10mM HEPES buffer, 2gmsper litre 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 cultureand 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.

Composition**		
Ingredients	mg/Litre	
INORGANIC SALTS		
Calcium nitrate tetrahydrate	100.000	
Magnesium sulphate anhydrous	48.840	
Potassium chloride	400.000	
Sodium chloride	6000.00	
Sodium phosphate dibasic anhydrous	800.00	
Sodium bicarbonate	2000.00	
AMINO ACIDS		
Glycine	10.000	
L-Arginine hydrochloride	241.00	
L-Asparagine monohydrate	50.000	
L-Aspartic acid	20.000	
L-Cystine dihydrochloride	65.200	
L-Glutamic acid	20.000	
L-Glutamine	457.500	
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	
	5.000	





Product Specification

cdhfinechemical.com

L-Tyrosine disodium salt dihydrate	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 B-12	0.005
i-Inositol	35.000
p-Aminobenzoic acid (PABA)	1.000
OTHERS	
D-Glucose	2000.000
Glutathione reduced	1.000

Quality control

Phenol red sodium salt

Appearance :

Orangish red colored, clear solution

pH:

HEPES

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.

2383.00

5.300

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.





Product Specification

cdhfinechemical.com

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 time
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.