



Product Specification

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Technical Information

McCoy's 5A Medium

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

Product Code: AL1057

Application:- McCoy's 5A medium was developed at Roswell Park Memorial Institute in Buffalo, New York. The first medium was developed in 1955 as the result of studies on the nutritional requirements of the Walker 256 carcinoma. The original formulation was based on the amino acids in concentrations similar to those in Eagle's medium as well as the water soluble vitamins of Medium 199. Modifications to the original formulation resulted in the final version being published in 1960. The final formulation also incorporates modifications done by Iwakata and Grace and contains increased amounts of folic acid, vitamin B12, and peptone. This medium is also known to support growth of primary cultures derived from a variety of tissues.

AL1057 is McCoy's 5A medium with sodium bicarbonate. It does not contain L-glutamine. 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 chloride dihydrate	132.430		
Magnesium sulphate anhydrous	97.720		
Potassium chloride	400.000		
Sodium bicarbonate	2200.000		
Sodium chloride	6460.000		
Sodium phosphate monobasic anhydrous	504.350		
AMINO ACIDS			
Glycine	7.510		
L-Alanine	13.360		
L-Arginine hydrochloride	42.140		
L-Asparagine anhydrous	45.030		
L-Aspartic acid	19.970		
L-Cysteine hydrochloride	31.500		
L-Glutamic acid	22.070		
L-Histidine hydrochloride	20.960		
L-Hydroxyproline	19.670		
L-Isoleucine	39.360		
L-Leucine	39.360		
L-Lysine hydrochloride	36.540		
L-Methionine	14.920		
L-Phenylalanine	16.520		
L-Proline	17.270		
L-Serine	26.280		
L-Threonine	17.870		
L-Tryptophan	3.060		
L-Tyrosine disodium salt	26.100		
L-Valine	17.570		
VITAMINS			
Ascorbic acid	0.5625		
Biotin	0.200		





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Challes ships its	5,000	
Choline chloride	5.000	
D-Ca-Pantothenate	0.200	
Folic acid	10.000	
Niacin	0.500	
Niacinamide	0.500	
Pyridoxal hydrochloride	0.500	
Pyridoxine hydrochloride	0.500	
Riboflavin	0.200	
Thiamine hydrochloride	0.200	
Vitamin B12	2.000	
i-Inositol	36.000	
p-Amino benzoic acid (PABA)	1.000	
OTHERS		
D-Glucose	3000.000	
Glutathione reduced	0.500	
Peptic digest of animal tissue	600.000	
Phenol red sodium salt	11.000	

Methodology

1. Add 7.5 ml 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

300.00 -340.00

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.





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Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
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