



McCoy's 5A Medium

With L-Glutamine and Sodium bicarbonate

Product Code: AL057A

Product Description:

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.

AL057A is McCoy's 5A medium. It contains 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 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	7.510
Glycine	13.360
L-Alanine	42.140
L-Arginine hydrochloride	45.030
L-Asparagine anhydrous	19.970
L-Aspartic acid	31.500
L-Cysteine hydrochloride monohydrate	22.070
L-Glutamic acid	219.200

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 dihydrate	26.100
L-Valine	17.570
VITAMINS	0.5625
Ascorbic acid	0.200
Biotin	5.000
Choline chloride	0.200
D-Ca-Pantothenate	10.000
Folic acid	0.500
Niacin	0.500
Niacinamide	0.500
Pyridoxal hydrochloride	0.500
Pyridoxine hydrochloride	0.200
Riboflavin	0.200
Thiamine hydrochloride	2.000
Vitamin B12	36.000
i-Inositol	1.000
p-Amino benzoic acid (PABA)	3000.000
OTHERS	0.500
D-Glucose	600.000
Glutathione reduced	11.000
Peptic digest of animal tissue	
Phenol red sodium salt	

Quality Control:

Appearance

Orangish red colored, clear solution.

pH

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.

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.

Disclaimer :

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