

Product Name

Name: McCoy's 5A Medium (Modified), with L-Glutamine

Cat. No.: C3020-0500

Size: 500 mL

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 similar to the amino acid concentrations in Eagle's medium and the concentration of the water-soluble vitamins of Medium199. 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 more folic acid, vitamin B12, and peptone. This medium is also known to support the growth of primary cultures derived from a variety of tissues.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific to different cell lines.

Composition

Ingredients	mg/L	Ingredients	mg/L
INORGANIC SALTS			
Calcium chloride dihydrate	132.430	Sodium chloride	6460.000
Magnesium sulphate anhydrous	97.720	Sodium phosphate monobasic anhydrous	504.350
Potassium chloride	400.000		
AMINO ACIDS			
Glycine	7.510	L-Leucine	39.360
L-Alanine	13.360	L-Lysine hydrochloride	36.540
L-Arginine hydrochloride	42.140	L-Methionine	14.920
L-Asparagine, anhydrous	45.030	L-Phenylalanine	16.520
L-Aspartic acid	19.970	L-Proline	17.270
L-Cysteine hydrochloride	31.500	L-Serine	26.280
L-Glutamic acid	22.070	L-Threonine	17.870
L-Glutamine	219.200	L-Tryptophan	3.060
L-Histidine hydrochloride	20.960	L-Tyrosine Disodium Salt	26.100
L-Hydroxyproline	19.670	L-Valine	17.570
L-Isoleucine	39.360		
Vitamins			
Ascorbic acid	0.5625	Pyridoxal hydrochloride	0.500

PI-C3020 V1.0

Biotin	0.200	Pyridoxine hydrochloride	0.500
Choline chloride	5.000	Riboflavin	0.200
D-Ca-Pantothenate	0.200	Thiamine hydrochloride	0.200
Folic acid	10.000	Vitamin B12	2.000
Niacin	0.500	i-Inositol	36.000
Niacinamide	0.500	p-Amino benzoic acid (PABA)	1.000
OTHERS			
D-Glucose	3000.000	Phenol red (sodium salt)	11.000
Glutathione reduced	0.500	Sodium bicarbonate	2200.000
Peptic digest of animal tissue	600.000		

Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture.

Procedure

1. Take a bottle of the medium from the refrigerator at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Pipette out the appropriate volume using an aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

Quality Control

McCoy's 5A Medium (modified) with L-Glutamine is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.