McCoy's 5A Medium

(McCoy's 5A Modified Medium)

Cat. No. CPM002

With L-Glutamine
With 25 mM HEPES
With Sodium Bicarbonate

1. Product Description

McCoy's 5A Medium is a modification of Basal Medium 5A widely used for culturing various cell lines, primary cells, and biological tissues. This medium is characterized by the inclusion of glutathione, peptone, and a high concentration of glucose. This product contains 25 mM HEPES for enhanced pH buffering capacity.

2. Composition

Concentration: mg/L

Amino Acids	mg/L
L-Alanine	13.90
L-Arginine·HCl	42.10
L-Asparagine	45.00
L-Aspartic Acid	20.00
L-Cysteine·HCl·H_2O	31.50
L-Glutamic Acid	22.10
L-Glutamine	219.20
Glycine	7.50
L-Histidine·HCl·H_2O	21.00
L-Hydroxyproline	19.70
L-Isoleucine	39.40
L-Leucine	39.40
L-Lysine·HCl	36.50
L-Methionine	15.00
L-Phenylalanine	16.50
L-Proline	17.30
L-Serine	26.30
L-Threonine	17.90
L-Tryptophan	3.10
L-Tyrosine·2Na·$2H_2O$	26.20
L-Valine	17.60

Vitamins & Others	mg/L
Ascorbic Acid	0.50
Biotin	0.20
D-Ca Pantothenate	0.20
Choline Chloride	5.00
Folic Acid	10.00
i-Inositol	36.00
Niacin (Nicotinic Acid)	0.50
Niacinamide	0.50
p-Aminobenzoic Acid	1.00
Pyridoxal·HCl	0.50
Pyridoxine·HCl	0.50
Riboflavin	0.20
Thiamine·HCl	0.20
Vitamin B12	2.00
Bacto-Peptone	600.00
D-Glucose	3000.00
Glutathione (reduced)	0.50
HEPES	5958.00
Phenol Red	10.00

Inorganic Salts	mg/L
$CaCl_2$	100.00
KCl	400.00
$MgSO_4$	98.00
NaCl	5100.00
$NaH_2PO_4·H_2O$	580.00
$NaHCO_3$	2200.00

3. Product Quality Specifications

Appearance	pH	Osmolality	Endotoxin	Sterility
Red clear liquid	pH 7.3 ± 0.3	327 ± 15 mOsm/kg H_2O	< 1 EU/mL	Sterile

4. Storage Conditions and Precautions

Protect from direct light and store refrigerated (2–8°C). Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Storing against the inner walls of a refrigerator where temperatures may approach 0°C can cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store refrigerated (2–8°C).