

McCoy's 5A (Modified) Medium, GlutaPlus, HEPES

Cat. No.: G4541

Product Information

Product Name	Cat. No.	Spec.
McCoy's 5A (Modified) Medium, GlutaPlus, HEPES	G4541-500ML	500 mL

Product Description

McCoy's 5A modified medium is a general-purpose medium originally designed specifically for Novikoff Hepatoma cells by Thomas McCoy et al. McCoy's 5A contains a high concentration of glucose, bacterial peptone and reduced glutathione compared to other media. McCoy's 5A medium modified generally supports the propagation of many types of primary mammalian cells derived from normal bone marrow, skin, spleen, kidney, lung, rat embryo and omentum, and other tissues. In addition, McCoy's 5A modified medium is used for tissue biopsy cultures, cell line building, and the culture of some lymphocytes and more difficult cells.

This product contains amino acids, vitamins, inorganic salts and other ingredients required for cell culture, without protein or growth factors. Add 5-10% serum or serum-free additives depending on the cell type.

This product is sterilized by 0.1 μ m filter membrane, pH 7.0-7.4, contains 16.67 mM D-glucose, 1.5 mM L-Alanyl-L-Glutamine, 25 mM HEPES buffer system, phenol red indicator, no sodium pyruvate.

HEPES is a commonly used biological buffer that can keep the culture medium in a constant pH range for a longer period of time, effectively preventing the culture medium from large pH fluctuations that may adversely affect cell growth.

Storage and Shipping Conditions

Ship at room temperature; Store away from light at 2-8°C, valid for 12 months.

Note

1. This product has been filtered and sterilized. Attention should be paid to aseptic operation to avoid contamination.
2. Avoid freezing the culture medium. Freezing may cause precipitation and precipitation of nutrients, which may not be completely dissolved after rewarming, affecting the cell culture effect. In addition, when the medium is stored at 2-8°C, do not store it completely close to the inner wall of the refrigerator to prevent the medium from freezing due to localized low temperature.
3. For your safety and health, please wear safety glasses, gloves and protective clothing.

For Research Use Only!

Ver. No.: V1.1-20260531

G4541 McCoy's 5A, modified, HEPES

Components	Concentration		Components	Concentration	
	mg/L	mM		mg/L	mM
Amino acids			Thiamine hydrochloride	0.20	0.000593472
Glycine	7.5	0.1000	Vitamin B12	2.00	0.001476015
L-Alanine	13.9	0.156	i-Inositol	36.0	0.2000
L-Arginine hydrochloride	42.1	0.1995	Inorganic salts		
L-Asparagine monohydrate	51.14	0.3409	Calcium Chloride (CaCl ₂)(anhyd.)	100	0.901
L-Asparagine	19.97	0.1502	Magnesium sulfate(MgSO ₄)(anhyd.)	200	0.813
L-Cysteine hydrochloride hydrate	31.5	0.2603	Potassium Chloride (KCl)	400	5.333
L-Glutamic acid	22.1	0.1503	Sodium bicarbonate(NaHCO ₃)	2200	26.190
L-Alanyl-L-Glutamine	326.1	1.5014	Sodium chloride (NaCl)	5100	87.931
L-Histidine hydrochloride monohydrate	20.96	0.0998	Sodium Phosphate monobasic(NaH ₂ PO ₄)(anhyd.)	504	4.203
L-Isoleucine	19.7	0.1504	Other components		
L-Leucine	39.36	0.3005	Peptone	600	Infinity
L-Lysinehydrochloride	39.36	0.3005	D-Glucose (Dextrose)	3000	16.67
L-Lysine Hydrochloride	36.5	0.1995	Reduced glutathione	0.5	0.0016
L-Methionine	14.9	0.1000	Phenol Red	9.4	0.0266
L-Phenylalanine	16.5	0.1000	HEPES	5958	25
L-Proline	17.3	0.1504			
L-Serine	26.3	0.2505			
L-Threonine	17.9	0.1504			
L-Tryptophan	3.06	0.0152			
L-Tyrosine disodium salt	26.1	0.1000			
L-Valine	17.6	0.1504			
Vitamins					
L-Ascorbic acid	0.50	0.002840909			
Biotin	0.20	0.000819672			
Choline chloride	5.00	0.035714287			
D-Calcium pantothenate	0.20	0.000419287			
Folic Acid	10.00	0.022675738			
Niacinamide	0.50	0.00409836			
Nicotinic acid	0.50	0.004065041			
Para-Aminobenzoic Acid	1.00	0.00729927			