



Catalog Number: 1251054

Leibovitz L-15 Medium (Modified) (1X Solution) without L-Glutamine

Description: In this medium dextrose is replaced by galactose. In addition, buffering is provided by the free bases of the amino acids in place of sodium bicarbonate. As a result this medium has been used for growth of tissues in free gaseous exchange with the atmosphere.

Notes:

- The phenol red concentration differs from that stated in the TCA recommendations.
- All DL-amino acids mentioned in the original reference have been replaced by the L-forms at half the concentration.

Formulation:

<i>Component</i>	<i>mg/lit</i>	<i>Mol. Wt.</i>	<i>Mol. (mM)</i>
Amino Acids			
L-Alanine	225.00	89.1	2.53
L-Arginine HCl	500.00	174.2	2.87
L-Asparagine H ₂ O	250.00	150.1	1.67
L-Cysteine	120.00	121.2	0.99
Glycine	200.00	75.07	2.66
L-Histidine	250.00	155.2	1.61
L-Isoleucine	125.00	131.2	0.95
L-Leucine	125.00	131.2	1.16
L-Lysine HCl	93.70	182.6	0.51
L-Methionine	75.00	149.2	0.50
L-Phenylalanine	125.00	165.2	0.76
L-Serine	200.00	105.1	1.90
L-Threonine	300.00	119.1	2.52
L-Tryptophan	20.00	204.2	0.10
L-Tyrosine	300.00	181.2	1.66
L-Valine	100.00	117.1	0.85

Vitamins			
Choline Chloride	1.00	139.6	0.0072
D-Calcium Pantothenate	1.00	238.3	0.0042
Folic Acid	1.00	441.4	0.0023
myo-Inositol	2.00	180.2	0.0111
Nicotinamide	1.00	122.13	0.0082
Pyridoxine HCl	1.00	205.6	0.0049
Riboflavin-5-Phosphate Na	0.1000	478.3	0.0002
Thiamine Phosphate Chloride	1.00	460.8	0.0022
Inorganic Salts			
Calcium Chloride [CaCl ₂ 2H ₂ O] Dihydrate	185.50	147	1.26
Magnesium Sulfate [MgSO ₄]	195.40	120.4	1.62
Potassium Chloride [KCl]	400.00	74.55	5.37
Potassium Phosphate Monobasic [KH ₂ PO ₄]	60.00	136.09	0.44
Sodium Chloride [NaCl]	8000.00	58.44	136.89
Sodium Phosphate Dibasic [Na ₂ HPO ₄]	190.00	141.96	1.34
Other			
D-(+)-Galactose	900.00	180.2	4.99
Phenol Red Sodium Salt	10.00	376.4	0.03
Sodium Pyruvate	550.00	110	5.00
Add			
L-glutamine Powder (mg/L)	300.0000		
L-glutamine 200 mM Solution (mL/L)	10.2700		

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