

Media Formulation

Leibovitz L-15 Medium



Version 1.0
Released Date: November 3, 2025

Cat. No. TM507

Store at 2-8°C, protect from light.
Shelf life: 18 months from date of manufacture.

Component	Molecular Weight (g/mol)	Concentration (mg/L)	Concentration (mM)
Amino Acids			
L-Alanine	89.0	225.0	2.530
L-Arginine	174.2	500.0	2.870
L-Asparagine	132.1	250.0	1.890
L-Cysteine	121.2	120.0	0.991
L-Glutamine	146.0	300.0	2.050
Glycine	75.0	200.0	2.660
L-Histidine	155.2	250.0	1.610
L-Isoleucine	131.0	125.0	0.953
L-Leucine	131.0	125.0	0.953
L-Lysine	146.2	75.0	0.513
L-Methionine	149.0	75.0	0.503
L-Phenylalanine	165.0	125.0	0.757
L-Serine	105.0	200.0	1.900
L-Threonine	119.0	300.0	2.520
L-Tryptophan	204.0	20.0	0.098
L-Tyrosine	181.2	300.0	1.660
L-Valine	117.2	100.0	0.854
Vitamins			
Choline chloride	140.0	1.0	0.007
Folic Acid	441.0	1.0	0.002
i-Inositol	180.0	2.0	0.011
Niacinamide	122.0	1.0	0.008
D-Calcium pantothenate	477.0	1.0	0.002
Pyridoxine hydrochloride	206.0	1.0	0.005
Flavin Mononucleotide • Na	456.3	0.1	2.19×10 ⁻⁴
Thiamine Monophosphate • HCl	365.7	1.0	0.003
Inorganic Salts			
Calcium Chloride (2H ₂ O.)	147.0	185.0	1.258
Magnesium Chloride (6H ₂ O)	203.3	200.0	0.984
Magnesium Sulfate (MgSO ₄)	120.0	97.7	0.814
Potassium Chloride (KCl)	75.0	400.0	5.333
Potassium Phosphate Monobasic (KH ₂ PO ₄)	136.1	60.0	0.441
Sodium Chloride (NaCl)	58.4	8000.0	136.9
Sodium Phosphate dibasic (Na ₂ HPO ₄)	142.0	190.0	1.340
Other Components			
D-Galactose	180.2	900.0	5.000
Phenol Red, Sodium	376.4	11.0	0.029
Sodium Pyruvate	110.0	555.0	5.000

Special media modification is available as a Custom Media Service; please contact a technical representative at technical@abmgood.com for more details.