





Comparative Formulation

Leibovitz's L-15

 Powdered Media	LVP01	LVP02	LVP03	LVP04	LVP05
Amino Acids	mg/L	mg/L	mg/L	mg/L	mg/L
Glycine	200.0000	200.0000	200.0000	200.0000	200.0000
L-Alanine	225.0000	225.0000	225.0000	225.0000	225.0000
L-Arginine	500.0000	500.0000	500.0000	500.0000	500.0000
L-Asparagine, Anhydrous	250.0000	250.0000	250.0000	250.0000	250.0000
L-Cysteine, Hydrochloride, Monohydrate	173.9800	173.9500	173.9800	173.9800	173.9800
L-Glutamine	300.0000	300.0000		300.0000	300.0000
L-Histidine, Anhydrous		250.0000			
L-Histidine, Hydrochloride, Monohydrate	337.7900		337.7900	337.7900	337.7900
L-Isoleucine	250.0000	125.0000	250.0000	250.0000	250.0000
L-Leucine	125.0000	125.0000	125.0000	125.0000	125.0000
L-Lysine, Hydrochloride	93.8000	93.7100	93.8000	93.8000	93.8000
L-Methionine	75.0000	75.0000	75.0000	75.0000	75.0000
L-Phenylalanine	125.0000	125.0000	125.0000	125.0000	125.0000
L-Serine	200.0000	200.0000	200.0000	200.0000	200.0000
L-Threonine	300.0000	300.0000	300.0000	300.0000	300.0000
L-Tryptophan	20.0000	20.0000	20.0000	20.0000	20.0000
L-Tyrosine, Disodium, Dihydrate	432.4580	432.4600	432.4580	432.4580	432.4580
L-Valine	100.0000	100.0000	100.0000	100.0000	100.0000

 Powdered Media	LVP01	LVP02	LVP03	LVP04	LVP05
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L
Calcium Chloride, Anhydrous	140.0000	140.0000	140.0000	140.0000	140.0000
Magnesium Chloride, Anhydrous	93.7000	93.6800	93.7000	93.7000	93.7000
Magnesium Sulfate, Anhydrous	97.6700	97.6700	97.6700	97.6700	97.6700
Potassium Chloride	400.0000	400.0000	400.0000	400.0000	400.0000
Potassium Phosphate, Monobasic, Anhydrous	60.0000	60.0000	60.0000	60.0000	60.0000
Sodium Chloride	8000.0000		8000.0000	8000.0000	8000.0000
Sodium Phosphate Dibasic, Anhydrous	190.0000	190.0000	190.0000	190.0000	190.0000
Other Components	mg/L	mg/L	mg/L	mg/L	mg/L
D-Galactose	900.0000	900.0000	900.0000	900.0000	900.0000
Phenol Red, Sodium Salt	10.6200	10.6500	10.6200	10.6200	
Pyruvic Acid, Sodium Salt	550.0000	550.0000	550.0000	550.0000	550.0000
Vitamins	mg/L	mg/L	mg/L	mg/L	mg/L
Choline Chloride	1.0000	1.0000	1.0000	1.0000	1.0000
D-Calcium Pantothenate	1.0000	1.0000	1.0000	1.0000	1.0000
Folic Acid	1.0000	1.0000	1.0000		1.0000
Myo-Inositol	2.0000	2.0000	2.0000	2.0000	2.0000
Niacinamide	1.0000	1.0000	1.0000	1.0000	1.0000
Pyridoxine, Hydrochloride	1.0000	1.0000	1.0000	1.0000	1.0000
Riboflavin 5'-phosphate, Sodium	0.1100	0.1000	0.1100	0.1100	0.1100
Thiamine Monophosphate	1.0000	1.1000	1.0000	1.0000	1.0000



Liquid Media

LVL02

LVL04

Amino Acids

mg/L

mg/L


Glycine	200.0000	200.0000
L-Alanine	225.0000	225.0000
L-Arginine	500.0000	500.0000
L-Asparagine, Anhydrous	250.0000	250.0000
L-Cysteine, Hydrochloride, Monohydrate	173.9800	173.9800
L-Glutamine	300.0000	
L-Histidine, Hydrochloride, Monohydrate	337.7900	337.7900
L-Isoleucine	250.0000	250.0000
L-Leucine	125.0000	125.0000
L-Lysine, Hydrochloride	93.8000	93.8000
L-Methionine	75.0000	75.0000
L-Phenylalanine	125.0000	125.0000
L-Serine	200.0000	200.0000
L-Threonine	300.0000	300.0000
L-Tryptophan	20.0000	20.0000
L-Tyrosine, Disodium, Dihydrate	432.4580	432.4580
L-Valine	100.0000	100.0000

Inorganic Salts

mg/L

mg/L

Calcium Chloride, Anhydrous	140.0000	140.0000
Magnesium Chloride, Anhydrous	93.7000	93.7000
Magnesium Sulfate, Anhydrous	97.6700	97.6700
Potassium Chloride	400.0000	400.0000
Potassium Phosphate, Monobasic, Anhydrous	60.0000	60.0000
Sodium Chloride	8000.0000	8000.0000
Sodium Phosphate Dibasic, Anhydrous	190.0000	190.0000

	Liquid Media	LVL02	LVL04
Other Components		mg/L	mg/L
D-Galactose	900.0000	900.0000	
Phenol Red, Sodium Salt	10.6200	10.6200	
Pyruvic Acid, Sodium Salt	550.0000	550.0000	
Vitamins		mg/L	mg/L
Choline Chloride	1.0000	1.0000	
D-Calcium Pantothenate	1.0000	1.0000	
Folic Acid	1.0000	1.0000	
Myo-Inositol	2.0000	2.0000	
Niacinamide	1.0000	1.0000	
Pyridoxine, Hydrochloride	1.0000	1.0000	
Riboflavin 5'-phosphate, Sodium	0.1100	0.1100	
Thiamine Monophosphate	1.0000	1.0000	