

ProductInformation

L-15 Medium

L-15 Medium (Leibovitz) was originally formulated for use in carbon dioxide (CO₂) free systems requiring sodium bicarbonate supplement. L-15 is buffered by its complement of salts, free base amino acids and galactose substituted for glucose to help maintain physiological pH control. When properly supplemented, L-15 Medium supports established cell lines, such as HEp-2 and LLC-MK₂, as well as primary explants of embryonic and adult human tissue. Many viruses also have been successfully cultivated in this medium.

	L1518		L 5520
	[1X]	L 4386	[1X]
COMPONENT	g/L	g/L	g/L
INORGANIC SALTS			
CaCl ₂ •2H ₂ O	0.185	0.185	0.185
MgCl•6H ₂ O	0.2	0.2	0.2
MgSO ₄ (anhydrous)	0.09767	0.09767	0.09767
KCl	0.4	0.4	0.4
KH ₂ PO ₄ (anhyd)	0.06	0.06	0.06
NaCl	8.0	8.0	8.0
Na ₂ HPO ₄ (anhyd)	0.19	0.19	0.19
AMINO ACIDS			
L-Alanine	0.225	0.225	0.225
L-Arginine (free base)	0.5	0.5	0.5
L-Asparagine (anhyd)	0.25	0.25	0.25
L-Cysteine (free base)	0.12	0.12	0.12
L-Glutamine	0.3	0.3	—
Glycine	0.2	0.2	0.2
L-Histidine	0.25	0.25	0.25
L-Isoleucine	0.125	0.125	0.125
L-Leucine	0.125	0.125	0.125
L-Lysine Monohydrochloride	0.0937	0.0937	0.0937
L-Methionine	0.075	0.075	0.075
L-Phenylalanine	0.125	0.125	0.125
L-Serine	0.2	0.2	0.2
L-Threonine	0.3	0.3	0.3
L-Tryptophan	0.02	0.02	0.02
L-Tyrosine (free base)	0.3	0.3	0.3
L-Valine	0.1	0.1	0.1
VITAMINS			
Choline Chloride	0.001	0.001	0.001
Flavin Mononucleotide•Na	0.0001	0.0001	0.0001
Folic Acid	0.001	0.001	0.001
myo-Inositol	0.002	0.002	0.002
Niacinamide	0.001	0.001	0.001
DL-Pantothenic Acid•½Ca	0.001	0.001	0.001
Pyridoxine•HCl	0.001	0.001	0.001
Thiamine Monophosphate•HCl	0.001	0.001	0.001

L-15 Medium continued next page

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	L1518		L 5520	L 6771
	[1X]	L 4386	[1X]	[1X]
<u>COMPONENT</u>	g/L	g/L	g/L	g/L
OTHER				
D-Galactose	0.9	0.9	0.9	0.9
Phenol Red•Na	0.011	0.011	0.011	0.011
Pyruvic Acid•Na	0.55	0.55	0.55	0.55
ADD				
L-Glutamine	—	—	0.3	0.3
Grams of powder required to prepare 1 L	N/A	14.8	N/A	N/A

REFERENCE

1. Leibovitz, A. (1963). The Growth and Maintenance of Tissue/Cell Cultures in Free Gas Exchange with the Atmosphere. Amer. J. Hyg. 78:173-180.