

L-15 Leibovitz liquid medium

Leibovitz L-15 is designed for use in CO₂ free atmosphere in unsealed containers; hence, no sodium bicarbonate supplement is required. The medium is buffered by the higher amino acid content, in particular L-arginine is useful in growing established cell lines (e.g. Hep-2) in non CO₂-equilibrated environments.

L-15 Leibovitz medium supports besides Hep-2 the growth of a large number of established cell lines

and the growth of primary human tissue explants and the nerve cells. On the supplementation with 10 % tryptose-phosphate-broth it is particularly apt for the cultivation of insect cell lines.

This medium is also available as a standard in powder with a minimum order of 500 litres; pack sizes are 10 or 50 litres.

Product	Cat. No.	Unit
L-15 Leibovitz liquid medium without NaHCO ₃ , without L-glutamine Storage temperature: +2 – +8 °C	F 1315	500 ml

Formulation

Different from the original formulation, only 0.05 mg/l riboflavin is used to avoid negative photo oxidative effects.

Tab. 22: Composition of the L-15 Leibovitz liquid medium

Substance	Concentration (mg/l)	Substance	Concentration (mg/l)
NaCl	8000	L-leucine	125
KCl	400	L-lysine	75
CaCl ₂	140	L-methionine	75
MgSO ₄ ·7H ₂ O	200	L-phenylalanine	125
MgCl ₂ ·6H ₂ O	200	L-serine	200
Na ₂ HPO ₄ ·7H ₂ O	359	L-threonine	300
KH ₂ PO ₄	60	L-tryptophane	20
D(+)-galactose	900	L-tyrosine	300
Na-pyruvate	550	L-valine	100
Phenol red	10	D-Ca-pantothenate	1
L-alanine	225	Cholin chloride	1
L-arginine	500	Folic acid	1
L-asparagine	250	Myo-inositol	2
L-cysteine	120	Nicotinamide	1
L-glutamine	300	Pyridoxin-HCl	1
Glycine	200	Riboflavin-5-phosphate-Na	0.1
L-histidine	250	Thiamine monophosphate	1
L-isoleucine	125		

References:

1. A. Leibovitz; *Am.J. Hyg.* **78**, 173 [1963]
2. H.J. Morton; *In Vitro.* **6**, 89 [1970]