

DATA SHEET

Rev.ver: 01

1. Identification

Product name	Leibovitz's L-15 Medium Without L-Glutamine and Sodium Bicarbonate
Catalog.no	CCML051

2. Description

Leibovitz's Medium was specifically formulated to support cell growth in environments without CO₂. Instead of the typical sodium bicarbonate/CO₂ buffering system, this medium incorporates a blend of free basic amino acids, phosphate buffers, and elevated levels of galactose and sodium pyruvate. As a result, it does not require sodium bicarbonate supplementation and allows for open exchange with atmospheric air. Leibovitz's Medium is suitable for culturing human tumor cells, embryonic cells, and established cell lines such as HeLa and Hep-2. It is also widely used in diagnostic virology, where tissue cell lines or strains are cultured in closed systems. Notably, Leibovitz's Medium reduces the need for frequent medium changes. For best results, users should consult relevant literature on appropriate supplementation and growth requirements for specific cell lines.

3. Product Specifications

Appearance	Red coloured clear solution
CO ₂ concentration, optimum	5.0 %
Storage and shelf life	Store at +2°C to +8°C protected from light.
Shipping conditions	Ambient

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4. Formulation

Components	Concentration mg/L
Amino Acids:	
L-Alanine	225
L-Arginine (free base)	500
L-Asparagine H ₂ O	284
L-Cystine (free base)	120
Glycine	200
L-Histidine (free base)	250
L-Isoleucine	125
L-Leucine	125
L-Lysine HCl	93.70
L-Methionine	75.00
L-Phenylalanine	125.0
L-Serine	200
L-Threonine	300
L-Tryptophan	20.00
L-Tyrosine 2Na 2H ₂ O	430.0
L-Valine	100.0
Vitamins:	
Choline chloride	1.0
D-Pantothenic acid • ½Ca	1.0
Folic Acid	1.0

Components	Concentration mg/L
i-Inositol	2.0
Nicotinamide	1.0
Pyridoxine HCl	1.0
Riboflavin -5-phosphate sodium salt	0.10
Thiamine monophosphate	1.0
Inorganic Salts	
CaCl ₂ 2H ₂ O	185
MgSO ₄ (anhydrous)	97.72
Potassium chloride	400
Sodium chloride	8000
Sodium phosphate dibasic anhydrous	190.120
Magnesium chloride hexahydrate	200
Potassium phosphate, monobasic	60
Other Components:	
D-Galactose	900.0
Phenol red sodium salt	10.000
Sodium Pyruvate	550.0

5. Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.