

Product Name

Name: Leibovitz's L-15 Medium, with L-Glutamine, without Sodium Bicarbonate

Cat. No.: C3070-0500

Size: 500 mL

Product Description

Leibovitz's L-15 Medium was specifically designed to grow cells in a CO₂-free atmosphere. The standard sodium bicarbonate/CO₂ buffering system is replaced by a combination of free basic amino acids, phosphate buffers, and higher levels of galactose and sodium pyruvate. As a result, the medium does not require supplementation with sodium bicarbonate and can be used under conditions of free gaseous exchange with the atmosphere. The medium can be used to grow human tumor cells and embryonic cells and also established cell lines such as HeLa and Hep-2.

The medium is frequently used in diagnostic virology where tissue cell lines or strains need to be grown in closed systems. Leibovitz's medium obviates the need of frequent medium change.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific to different cell lines.

Composition

Ingredients	mg/L	Ingredients	mg/L
INORGANIC SALTS			
Calcium chloride dihydrate	185.000	Potassium phosphate, monobasic	60.000
Magnesium chloride hexahydrate	200.000	Sodium chloride	8000.000
Magnesium sulphate anhydrous	97.720	Sodium phosphate, dibasic anhydrous	190.120
Potassium chloride	400.000		
Amino Acids			
DL-Alpha alanine	450.000	L-Lysine hydrochloride	94.000
Glycine	200.000	L-Methionine	75.000
L-Arginine (free base)	500.000	L-Phenylalanine	125.000
L-Asparagine	250.000	L-Serine	200.000
L-Cysteine (free base)	120.000	L-Threonine	300.000
L-Glutamine	300.000	L-Tryptophan	20.000
L-Histidine (free base)	250.000	L-Tyrosine disodium salt	276.160
L-Isoleucine	250.000	L-Valine	100.000
L-Leucine	125.000		
Vitamins			
Choline chloride	1.000	Pyridoxine hydrochloride	1.000

D-Ca-Pantothenate	1.000	Riboflavin-5-phosphate, Na	0.100
Folic acid	1.000	Thiamine monophosphate	1.000
Nicotinamide	1.000	i-Inositol	2.000
OTHERS			
D-Galactose	900.000	Sodium pyruvate	550.000
Phenol red sodium salt	11.000		

Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture.

Procedure

1. Take a bottle of the medium from the refrigerator at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Pipette out appropriate volume using aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

Quality Control

Leibovitz's L-15 Medium, with L-Glutamine, without Sodium Bicarbonate is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.