

Product Name

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

Cat. No.: C3072-0500

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 culture medium has been supplemented L-Alanyl-L-Glutamine in place of L-Glutamine.

Compared with Glutamine, L-Alanyl-L-Glutamine is much more stable than L-Glutamine, releases less ammonia in culture, and improves cell viability and growth.

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

INORGANIC SALTS

Calcium chloride dihydrate	185.000
Magnesium chloride hexahydrate	200.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Potassium phosphate, monobasic	60.000
Sodium chloride	8000.000
Sodium phosphate, dibasic anhydrous	190.120
AMINO ACIDS	
DL-Alpha alanine	450.000
Glycine	200.000
L-Arginine (free base)	500.000
L-Asparagine	250.000
L-Cysteine (free base)	120.000
L-Alanyl-L-Glutamine	445.800
L-Histidine (free base)	250.000
L-Isoleucine	250.000
L-Leucine	125.000
L-Lysine hydrochloride	94.000
L-Methionine	75.000
L-Phenylalanine	125.000



L-Serine	200.000
L-Threonine	300.000
L-Tryptophan	20.000
L-Tyrosine disodium salt	276.160
L-Valine	100.000

Vitamins

Choline chloride	1.000
D-Ca-Pantothenate	1.000
Folic acid	1.000
Nicotinamide	1.000
Pyridoxine hydrochloride	1.000
Riboflavin-5-phosphate, Na	0.100
Thiamine monophosphate	1.000
i-Inositol	2.000

OTHERS

D-Galactose	900.000
Phenol red sodium salt	11.000
Sodium pyruvate	550.000

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 from the defined storage conditions 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 the appropriate volume of the product using an 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-Alanyl-L-Glutamine, without Sodium bicarbonate is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Manufacturer

Shanghai XP Biomed Ltd.

Issue Date

March 2nd 2026

Precaution and Disclaimer

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

