

Technical Information

Leibovitz's L-15 Medium

Without L-Glutamine 1X Liquid Cell Culture Medium

Product Code: AL1011

Application: Leibovitz's Medium was specifically designed to grow cells in a CO₂ free atmosphere. The standard sodium bicarbonate/CO₂ buffering system is replaced by 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 like 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.

AL1011 is Leibovitz's L-15 Medium without Lglutamine. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition**

| Ingredients | mg/Litre |
|------------------------------------|----------|
| 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-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 sodium salt | 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 |

Methodology

1. Add 10.3ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

Material required but not provided

L-Glutamine solution 200mM (TCL1012)

Quality control

Appearance

Orangish red coloured clear solution.

pH

7.30 -7.90

Osmolality in mOsm/Kg H₂O

300.00 -340.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control medium through minimum three subcultures.

Endotoxin Content

NMT 5EU/ml

Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 18 months. Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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