

## Leibovitz's L-15 Medium

### Without L-Glutamine

#### Product Code: AL011

#### Product Description:

Leibovitz's Medium was specifically designed to grow cells in a CO<sub>2</sub> free atmosphere. The standard sodium bicarbonate/CO<sub>2</sub> 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.

AL011 is Leibovitz's L-15 Medium without L-Glutamine. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

#### Composition:

Ingredients	mg/L
<b>INORGANIC SALTS</b>	
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
<b>AMINO ACIDS</b>	
L- Alanine	225.000
Glycine	200.000
L-Arginine (free base)	500.000
L-Asparagine monohydrate	284.070
L-Cysteine (free base)	120.000
L-Histidine (free base)	250.000
L-Isoleucine	125.000
L-Leucine	125.000

L-Lysine hydrochloride	93.700
L-Methionine	75.000
L-Phenylalanine	125.000
L-Serine	200.000
L-Threonine	300.000
L-Tryptophan	20.000
L-Tyrosine disodium salt dihydrate	430.000
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	10.000
Sodium pyruvate	550.000

#### Directions:

1. Add 10.3ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

#### Material required but not provided:

L-Glutamine solution 200mM (TCL012)

#### Quality Control:

##### Appearance

Red coloured clear solution.

##### pH

7.30 - 7.90

##### Osmolality in mOsm/Kg H<sub>2</sub>O

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.

**Endotoxin Content**

NMT 1EU/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 :**

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