

## Leibovitz's L-15 Medium 2X

With L-Glutamine

**Product Code: AL247A**

### 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.

AL247A is 2X Leibovitz's L-15 Medium with 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	370.000
Magnesium chloride hexahydrate	400.000
Magnesium sulphate anhydrous	195.440
Potassium chloride	800.000
Potassium phosphate monobasic	120.000
Sodium chloride	16000.000
Sodium phosphate dibasic anhydrous	380.240
<b>AMINO ACIDS</b>	
DL-Alpha alanine	900.000
Glycine	400.000
L-Arginine (free base)	1000.000
L-Asparagine	500.000
L-Cysteine (free base)	240.000
L-Glutamine	600.000
L-Histidine (free base)	500.000

L-Isoleucine	500.000
L-Leucine	250.000
L-Lysine hydrochloride	188.000
L-Methionine	150.000
L-Phenylalanine	250.000
L-Serine	400.000
L-Threonine	600.000
L-Tryptophan	40.000
L-Tyrosine disodium salt	552.320
L-Valine	200.000
<b>VITAMINS</b>	
Choline chloride	2.000
D-Ca-Pantothenate	2.000
Folic acid	2.000
Nicotinamide	2.000
Pyridoxine hydrochloride	2.000
Riboflavin-5-phosphate sodium salt	0.200
Thiamine monophosphate	2.000
i-Inositol	4.000
<b>OTHERS</b>	
D-Galactose	1800.000
Phenol red sodium salt	22.000
Sodium pyruvate	1100.000

### Quality Control:

#### Appearance

Red coloured clear solution.

#### pH (at 2X concentration)

7.30 - 7.90

#### Osmolality in mOsm/Kg H<sub>2</sub>O (at 2X concentration)

620.00 - 680.00

#### 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 12 months.

Use before expiry date given on the product label.

**Disclaimer :**

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