

### Technical Information

#### Leibovitz's L-15 Medium With L-Glutamine 1X Liquid Cell Culture Medium

#### Product Code: AL1011A

**Application:**-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.

AL1011A is 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/Litre
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>	
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-Glutamine	300.000
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
<b>INORGANIC SALTS</b>	
L-Valine	100.000
<b>VITAMINS</b>	
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
<b>OTHERS</b>	
D-Galactose	900.000
Phenol red sodium salt	11.000
Sodium pyruvate	550.000

## Quality Control

### Appearance

Orangish 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 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 12 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.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.