

Technical Information

Leibovitz's L-15 Medium 2X With L-Glutamine 1X Liquid Cell Culture Medium

Product Code: AL1247A

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.

AL1247A 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/Litre
INORGANIC SALTS	
Calcium chloride dihydrate	370.00
Magnesium chloride hexahydrate	400.00
Magnesium sulphate anhydrous	195.440
Potassium chloride	800.00
Potassium phosphate monobasic	120.000
Sodium chloride	16000.00
Sodium phosphate dibasic anhydrous	380.240
AMINO ACIDS	
DL-Alpha alanine	900.000
Glycine	400.00
L-Arginine (free base)	1000.00
L-Asparagine	500.00
L-Cystine(free base)	240.00
L-Glutamine	600.00
L-Histidine(free base)	500.00
L-Isoleucine	500.00
L-Leucine	250.00
L-Lysine hydrochloride	188.00
L-Methionine	150.00
L-Phenylalanine	250.000
L-Serine	400.000
L-Threonine	600.000
L-Tryptophan	40.000
L-Tyrosine sodium salt	552.320
L-Valine	200.000

VITAMINS

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

OTHERS

D-Galactose	1800.00
Phenol red sodium salt	22.000
Sodium pyruvate	1100.00

Quality control

Appearance :

Orangish red coloured clear solution

pH(at 2X concentration) :

7.30-7.90

Osmolality in mOsm/Kg H₂O(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 and comparing it.

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 :

- 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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