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Technical Datasheet

Leibovitz's L-15 Medium

With L-Glutamine
Without Phenol red, Sodium bicarbonate and Sodium pyruvate

Product Code: AL204A

Product Description:

Leibovitz's Medium was specifically designed to grow cells in a CO_2 free atmosphere. The standard sodium bicarbonate/ CO_2 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.

AL204A is Leibovitz's L-15 Medium with L-glutamine. It does not contain phenol red, sodium bicarbonate and sodium pyruvate. 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
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-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
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

Quality Control:

Appearance
Clear colorless solution

pH
7.30 -7.90

Osmolality in mOsm/Kg H_2O
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 2-8ºC away from bright light.
Shelf life is 12 months.
Use before expiry date given on the product label.

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