

# Product Information

## L-15 (Leibovitz) Medium

with 2.05 mM L-glutamine

CATALOG NO. 51202C

### Description

L-15 (Leibovitz) Medium was originally developed to support the growth and proliferation of many cell lines under specific environmental conditions. While most cell culture media contain sodium bicarbonate as a buffer for use in a CO<sub>2</sub>-charged atmosphere, L-15 is buffered by a complement of salts, free base amino acids (particularly L-arginine) and galactose. As a consequence, it does not require supplementation with sodium bicarbonate and it can be used under conditions of free gaseous exchange with the atmosphere.

### Precautions

Use aseptic technique when handling or supplementing this medium. This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

### Storage

Store medium protected from light at 2 to 8 C. Do not freeze. Do not use after the expiration date.

### Indications of Deterioration

Medium should be clear of particulates and flocculent material. Do not use if liquid medium is cloudy or contains precipitate. Other evidence of deterioration may include color change, pH shift or degradation of physical or performance characteristics.

### Preparation Instructions

Supplements, such as antibiotics, can be added to the sterilized solution using aseptic technique. Storage conditions and shelf life of the supplemented product may be affected by the nature of the supplements. Sterile serum should not be refiltered before or after being added to sterile medium because growth promoting capacity may be reduced upon refiltration.

### Formulation

Component (all components measured in mg/L)	
<b>INORGANIC SALTS</b>	
Calcium chloride anhydrous	140.000
Magnesium chloride anhydrous	93.680
Magnesium sulfate anhydrous	97.670
Potassium chloride	400.000
Potassium phosphate monobasic anhydrous	60.000
Sodium chloride	8000.000
Sodium phosphate dibasic anhydrous	190.000
<b>VITAMINS</b>	
D-calcium pantothenate	0.500
Choline chloride	1.000
Folic acid	1.000
i-inositol	2.000
Niacinamide	1.000
Pyridoxal HCl	1.000
Riboflavin-5-phosphate Na dihydrate	0.100
Thiamine monophosphate ester phosphoric acid sodium salt	1.000
<b>AMINO ACIDS</b>	
L-alanine	225.000
L-arginine free base	500.000
L-asparagine monohydrate	284.000
L-cysteine free base	120.000
L-glutamine	300.000
Glycine	200.000
L-histidine free base	250.000
L-isoleucine	125.000
L-leucine	125.000
L-lysine free base	75.000
L-methionine	75.000
L-phenylalanine	125.000
L-serine	200.000
L-threonine	300.000
L-tryptophan	20.000
L-tyrosine free base	300.000
L-valine	100.000
<b>OTHER</b>	
D+ Galactose	900.000
Phenol red sodium salt	10.650
Sodium pyruvate	550.000

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## Characteristics

### Appearance

Clear orange-red solution

### Endotoxin

≤ 1.0 EU/mL

### pH (as supplied)

7.2 - 7.6

### Sterility

No microbial growth detected

## References

1. Liebovitz, A., *Am J Hyg* (1963), 78:173.

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