L-15 Medium

(Leibovitz's L-15 Medium)

Cat. No. CPL001

With L-Glutamine
With D-Galactose
With Sodium Pyruvate
Without Sodium Bicarbonate

1. Product Description

L-15 Medium was developed for culturing HEP-2 cells and primary human tissue cultures. Unlike other media, it maintains physiological buffering capacity using phosphate, inorganic salts, and free base amino acids instead of sodium bicarbonate, allowing cell culture in environments without CO_2 equilibration.

2. Composition

Concentration: mg/L

Amino Acids	mg/L
L-Alanine	225.00
L-Arginine (free base)	500.00
L-Asparagine	250.00
L-Cysteine (free base)	120.00
L-Glutamine	300.00
Glycine	200.00
L-Histidine (free base)	250.00
L-Isoleucine	250.00
L-Leucine	125.00
L-Lysine (free base)	75.00
L-Methionine	75.00
L-Phenylalanine	125.00
L-Serine	200.00
L-Threonine	300.00
L-Tryptophan	20.00
L-Tyrosine (free base)	300.00
L-Valine	100.00

Vitamins	mg/L
D-Ca Pantothenate	1.00
Choline Chloride	1.00
Flavin Mononucleotide-Na	0.10
Folic Acid	1.00
i-Inositol	2.00
Niacinamide	1.00
Pyridoxine·HCl	1.00
Thiamine Monophosphate·HCl	1.00

Inorganic Salts	mg/L
$CaCl_2$	140.00
KCl	400.00
KH_2PO_4	60.00
$MgCl_2$	94.00
$MgSO_4$	98.00
Na_2HPO_4	190.00
NaCl	8000

Others

Others	mg/L
D-Galactose	900.00
Phenol Red	10.00
Sodium Pyruvate	550.00

3. Product Quality Specifications

Appearance	pH	Osmolality	Endotoxin	Sterility
Red clear liquid	pH 7.3 ± 0.3	320 ± 16 mOsm/kg H_2O	< 1 EU/mL	Sterile

4. Storage Conditions and Precautions

Protect from direct light and store refrigerated (2–8°C). Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Storing against the inner walls of a refrigerator where temperatures may approach 0°C can cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store refrigerated (2–8°C).