Leibovitz's L-15, powder

Cat. No. : PM151010P

Size : 5×1L / 1×10L / 1×50L / 100L / 500L

General Information

Product Form	Powder
D-Glucose	Negative
Concentration	13.88 g/L
HEPES	Negative
L-Glutamine	2.05 mM
$NaHCO_3$	Negative
Phenol red	10.0 mg/L
Sodium pyruvate	5.0 mM
Storage	2-8°C, Shading Light
Shipping	Room temperature
Expiration date	36 months

Background

Leibovitz's L-15 medium is suitable for the growth of HEP-2 monkey kidney cells and primary explants of embryonic and adult human tissue.

This product contains a variety of cell culture required amino acids, vitamins, inorganic salts and other ingredients, but does not contain protein, lipids or any growth factors, so this product should be used with serum or serum-free additives.

Preparation method

1. The preparation water should be purified water, ultra-pure water or water for injection (WFI), and the water temperature should be controlled between 20-30°C during the preparation process.
2. Measure 90% of the final volume preparation water to the solution preparation system. Start stirring, and avoid generating bubbles. For example, if 1 L is required, add 900 mL of preparation water here. And it's recommended that the power output per unit volume (P/V) of the mixing system is greater than 10 W/m^3.
3. Weigh the appropriate amount of powder according to the concentration of 13.88 g/L accurately, and add it to the container prepared in step 2. Stir for more than 20 minutes dissolve all powder completely.
4. Add ultra pure water to adjust the volume to the 100% of required (This medium does not need to add $NaHCO_3$).
5. If necessary, adjust the pH to 7.20-7.30 with 1 mol/L NaOH solution or 1 mol/L HCl solution. Since filtration will slightly increase the pH, the pH value here is lower than the target pH value (7.20-7.40).
6. The prepared solution should be sterilized using a 0.2 μm pore size filter membrane under positive pressure (ensure aseptic technique).

7. After filtration, a small amount of liquid culture medium can be taken for quality inspection, and use only after passing the test.
8. The filtered liquid medium should be used immediately or stored in glass bottles, culture medium bottles (PET), or single-use storage bags with an oxygen-barrier coating at 2-8°C away from light. The liquid medium has a shelf life of 1 year under these conditions.

Notes

1. This product is not suitable for a CO_2 environment, as CO_2 can cause the pH of the culture medium to decrease (the culture medium turns yellow), which seriously affects the cell growth.
2. Please wear a lab coat and use disposable gloves and a mask during operation.
3. To ensure the optimal performance of this product, please strictly adhere to the recommended storage conditions for its preservation.
4. This product is intended for scientific research exclusively or as a raw material in the production process, and must not be applied for clinical diagnosis or treatment.