Ham's F-10, powder

Cat. No.: PM151110P

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

General Information

Product Form	Powder
D-Glucose	1100 mg/L
Concentration	9.8 g/L
HEPES	Negative
L-Glutamine	1.0 mM
$NaHCO_3$	Negative
Phenol red	1.2 mg/L
Sodium pyruvate	1.0 mM
Storage	2-8°C, Shading Light
Shipping	Room temperature
Expiration date	36 months

Background

Ham's F-10 Nutrient Mixture is a culture medium designed by Ham in 1963 for serum-free culture of CHO cells. Ham's F-10 contains rich nutrients and is suitable for the culture of human diploid cells, cell cloning culture under low serum conditions, the normal culture of mammalian cells, the chromosome analysis of leukocytes and the primary cell culture of rats, rabbits, chickens and other animals.
This product contains many kinds 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 9.8 g/L accurately, and add it to the container prepared in step 2. Stir for more than 20 minutes dissolve all powder completely.
4. After the solution is clear, add $NaHCO_3$ at a concentration of 1.2 g/L, continue stirring for 5-10 minutes until dissolved, then add ultra pure water to adjust the volume to the 100% of required.
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 only used for scientific research or further research, not for diagnosis and treatment.
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.

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