
SF9 serum-free medium Product manual

Basic Information

Cat.NO	Size	Shelf	Form	Storage	Transportation
CMB0095	2L	24 months	Powder	Store at 2-8°C away from light	Room temperature

Product Introduction

This product is a serum-free medium used to support high-density suspension growth of insect cells and recombinant protein expression. The medium contains glucose, glutamine and a small amount of hydrolyzate.

Preparation of powder

1. Purified water, ultrapure water or water for injection should be used for preparation, and the water temperature should be controlled at 20-30°C during the preparation process;
2. Add 90% of the preparation volume of preparation water to the preparation container (if 1L is required, add 900mL of preparation water here), turn on the mixing system of the culture medium preparation container (it is recommended that the input power per unit volume of the mixing system is greater than 10W/m³), stir well, and avoid the generation of bubbles during stirring;
3. Weigh the powder culture medium 42.9g/L according to the required preparation volume. Add the accurately weighed culture medium powder to the preparation container of step 2, stir thoroughly for more than 20 minutes until the powder is completely dissolved;
4. Add preparation water to accurately make the completely dissolved solution 100% of the preparation volume (if 1L is required, make it 1L);
5. Measure the pH value, and adjust the pH value to 6.0- 6.2 with 1mol/L sodium hydroxide solution or 1mol/L hydrochloric acid solution if necessary);
6. Use a filter membrane with a pore size of 0.2µm to sterilize by positive pressure filtration (pay attention to aseptic operation);
7. After filtration, take a small amount of liquid culture medium for bacterial inspection and use it after it passes the test;
8. The filtered culture medium liquid should be used immediately or stored in glass bottles, culture medium bottles (PET) or disposable storage bags with oxygen barrier coatings and stored at 2-8°C away from light. The shelf life of the liquid culture medium

is 1 year.

Instructions

1. Balance the culture medium and related solutions in a water bath or at room temperature, and prepare the culture medium required for the experimental cells;
2. Cell inoculation: Remove the cells to be cultured from the original culture container, wash with appropriate culture medium or PBS, and adherent cells need to be digested with trypsin;
3. Collect the cells by centrifugation, centrifuge at 1000rpm for 3 min at room temperature, and discard the supernatant;
4. Add fresh culture medium to resuspend the cells. Then inoculate the cell suspension into the culture bottle with the corresponding volume of culture medium, mix gently, and culture at 37°C and 5% CO₂ saturated humidity. Observe and replace fresh culture medium regularly according to cell growth and cell density.

Precautions

1. During the entire process, be sure to pay attention to aseptic operation to avoid contamination;
2. To maintain the best use effect of this product, do not perform freeze-thaw treatment;
3. This product is only used for research or further research, not for diagnosis and treatment.