SF Insect Serum Free Medium

Basic Information

Cat.NO	Size	Shelf	Form	Storage	Transportation
CMB0098	500ml	12 months	Liquid	Store at 2-8°C away from light	Room Temperature

Product Introduction

This product is a serum-free medium for supporting high-density suspension growth and recombinant protein expression in insect cells. The medium contains glucose, glutamine and a small amount of hydrolysate.

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% CO_2 saturated humidity. Observe and replace fresh culture medium regularly according to cell growth and cell density.

Medium Adaptation

Since the insect culture medium is a high concentration medium with large differences in composition, and the insect cells are relatively sensitive, it is necessary to do the adaptation of the culture medium when switching from different mediums to this medium.

1. Use 50% of the original medium + 50% of the medium for 3 days, after the cell viability is >95% and there is no obvious difference between the cell doubling time and the original medium, then it can be inoculated into the 100% of the medium.
2. Cultivate in 100% of this medium for 3 days, and then continue the subsequent production work after the cell viability is >95% and the cell multiplication time is not significantly different from the original medium.

Recommended process

1. Recommended inoculum density is 1 x 10^6 cells/mL, cell viability >95%, culture temperature 27°C.
2. Maintain glucose concentration below 3g/L during incubation (i.e. not less than 3g/L before each refill).
3. When the cell density is 6 x 10^6 cells/mL, you can consider to replenish 4% of the culture volume once, or not to replenish according to the platform needs.

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.