Ham's F-12(With HEPES) Product manual

Basic Information

Cat.NO	Size	Shelf	Form	Storage	Transportation
CMB0082	500mL	12 months	Liquid	Store at 2-8°C away from light	Room Temperature

Product Introduction

Ham's F-12 Nutrient Mixture was designed by Ham in 1969 based on Ham's F-10 Nutrient Mixture and was originally used for serum-free culture of CHO cells. Ham's F-12 is often used as a basic culture medium for serum-free culture. When the serum content is low, it is particularly suitable for single cell culture and cloning culture. After adding serum, it is also widely used in the culture of cancer cells and primary cells, such as rat hepatocytes, rat prostate epithelial cells, chondrocytes, rat myoblasts, chicken embryonic cells, etc. In addition, when equal volumes of Ham's F-12 and DMEM are mixed, the resulting DMEM/F12 medium is more nutritious and more widely used.
HEPES is an excellent biological buffer with no toxic effect on cells. The culture medium with HEPES added can maintain a constant pH range for a long time, which can effectively prevent the adverse effects of large pH fluctuations in the culture medium on cell growth.

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.

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.