

RPMI-1640 (With HEPES) Product manual

Basic Information

Cat.NO	Size	Shelf	Form	Storage	Transportation
CMB0049	500mL	12 months	Liquid	Store at 2-8°C away from light	Room Temperature

Contains (+)

L-Glutamine	2mM
Sodium bicarbonate	2000mg/L
D-Glucose	2000mg/L
HEPES	25mM
pH indicator phenol red	

Product Introduction

RPMI 1640 medium is named after the Roswell Park Memorial Institute (RPMI), where it was developed, and 1640 is the code name of the medium. RPMI-1640 medium was originally designed for lymphocyte culture, but is now widely used in the culture of various normal cells and cancer cells, especially suspension cells, and is one of the most widely used culture media.

This product contains a variety of ingredients such as amino acids, vitamins, and inorganic salts required for various types of cell culture, but does not contain proteins, lipids, or any growth factors, so this product must be used with serum or serum-free supplements.

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% 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.