

HEPES Buffer (10× HMF, Magnesium-Free)

Cat #: A-CSH426

Size: 500mL

Storage: 2-8°C (3 months)

Product Description

HEPES, also known as 4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid, has no toxic effect on cells. HEPES is a zwitterionic buffer that effectively controls pH within the range of 6.8 to 8.2, with optimal buffering capacity around pH 7.2 to 7.4 at a final concentration of 10 to 50 mmol/L. A concentration of 20 mmol/L HEPES in the culture medium provides sufficient buffering capacity.

HEPES Buffer (10× HMF, Magnesium-Free) is a commonly used solution in cell-cell adhesion experiments. It is primarily composed of HEPES, sodium chloride, potassium chloride, phosphate, glucose, and contains Ca^{2+} but no Mg^{2+} . The pH is 7.4, and the solution has been sterile filtered. It is often used for washing tissues or cells (especially fibroblasts) during long-term aggregate culture to protect cell adhesion molecules while maintaining cell aggregation.

Usage

Operate according to the specific requirements of the experiment. It is primarily used for cell washing and functions similarly to PBS. Dilute before use.

Notes

1. Pay attention to aseptic techniques and minimize contamination.
2. For your safety and health, wear laboratory attire and use disposable gloves when handling this reagent.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.