

HEPES Buffer (10× HCMF, Calcium And Magnesium-Free)

Cat #: A-CSH424

Size: 500mL

Storage: 2-8°C (3 months)

Product Description

HEPES, also known as 4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid, has no toxic effects on cells. Its Chinese name is N-(2-Hydroxyethyl)piperazine-N'-2-sulfonic acid. It has a molecular formula of $C_8H_{18}N_2O_4S$ and a molecular weight of 238.31. The CAS number is 7365-45-9. HEPES is a zwitterionic buffering agent that effectively controls pH within the range of 6.8 to 8.2, with particularly good buffering capacity at pH 7.2 to 7.4. The recommended final concentration is generally 10 to 50mmol/L, and a concentration of 20mmol/L HEPES in the culture medium provides good buffering capacity.

HEPES Buffer (10× HCMF, without calcium and magnesium) is a commonly used solution in cell-cell adhesion experiments. It mainly consists of HEPES, sodium chloride, potassium chloride, phosphate, glucose, and has a pH of 7.4. The solution has been sterilized by filtration. It is particularly suitable for cell washing during short-term aggregation cultures and can also be used for other purposes.

Usage

Operate according to the specific requirements of the experiment, mainly used for cell washing, similar to PBS. Dilute to a 1× concentration before use.

Notes

1. Pay attention to aseptic techniques and try to avoid contamination.
2. For your safety and health, please wear lab coat and disposable gloves during operation.

Disclaimer

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