

HEPES Solution

Catalogue No.: abx295003

HEPES is a buffer that is widely used in biological research, particularly in cell and tissue culture. It is zwitterionic at physiological pH and has negligible metal ion binding, and therefore has little to no effect on the vast majority of biochemical reactions. It has a pKa of 7.5 (at 25 °C) and is effective between pH 6.8-8.2.

Target:	HEPES
Recommended dilutions:	Working concentration: 10-50 mM, Cell Culture: 10 mM. Optimal dilutions/concentrations should be determined by the end user.
Form:	Liquid
Purification:	Sterilized by 0.1 µm filtration.
Storage:	Store between 2-8 °C for short-term storage. For long-term storage, store at -20 °C. Avoid exposure to light.
Validity:	Up to 24 months.
Buffer:	pH 7.2-7.4, containing 238.3 g/L HEPES.
CAS Number:	7365-45-9
Endotoxin Level:	< 1 EU/ml
Concentration:	1 M
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.
Directions for use:	This product may be used directly without dilution. Use aseptic techniques to avoid contamination. If HEPES is exposed to light for more than 3 hours, it may undergo oxidation to produce hydrogen peroxide, which has a toxic effect on cells.