

Product Data Sheet

HEPES Buffer Solution (1M), Sterile-Filtered
Product No. GB-HEPES-100A

Product Specifications

HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) is a zwitterionic organic chemical buffering agent commonly used in cell culture media. It maintains the pH in a range of 6.7 - 8.6 and the addition of 10 to 25 mM HEPES provides extra buffering capacity when cell culture requires extended periods of manipulation outside of a CO₂ incubator. HEPES is suitable for many cell culture systems because it is membrane impermeable, has limited effect on biochemical reactions, is chemically and enzymatically stable. HEPES Buffer Solution is prepared in cell culture grade water.

CAS No. (solid)	7365-45-9
pH	6.5 - 7.5
Osmolality	1300 - 1500 mOsm/kg
Endotoxin	≤10 EU/ml
Sterility	Tested
Storage	Shipped at ambient temperatures. Store at +2°C to +8°C protected from light.
Working concentration	Recommended final concentration: 10 - 40 mM

Formulation

Component	g/l	Molecular Weight g/mol	Concentration M
HEPES	238.30	238.30	1.00

Precautions and Disclaimer

This product is for research use only.