

HEPES (1M) pH 7.3

sterile

#GS13.0110 (1L)

(FOR RESEARCH ONLY)



Product: HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) is widely used as a buffering agent in cell culture media. The zwitterion possesses a $pK_{a(1)}$ of 3 and a $pK_{a(2)}$ of 7.5 with useful pH ranges of 2.5-3.5 and 6.7-8.6. In comparison with bicarbonate buffer systems, HEPES is better in maintaining physiological pH despite changes in CO_2 concentrations resulting from cellular activity. HEPES is suitable for many cell culture systems as it is membrane impermeable and has limited effect on biochemical reactions.

Applications: Commonly used Buffer for a large variety of applications in molecular biology and cell biology.

Contents: #GS14.0110 contains 1L of a 1M solution of HEPES

Storage: HEPES (1M) pH 7.3 should be stored at +4°C.