Sodium acetate buffer solution

Product Number  S 7899
Store at Room Temperature

Product Description
This product is a 3 M solution. It is prepared with S 2889 (sodium acetate, Molecular Biology grade) and 18 megaohm water, and is 0.2 µm filtered. This product has a pH of 5.2 ± 0.1 at 25 °C.

This product is designated as Molecular Biology grade. It is suitable for DNA precipitation and has been analyzed for the presence of nucleases. The Certificate of Analysis provides lot-specific information on the concentration and pH of the product.

Sodium acetate is a widely used reagent in molecular biology applications. It is used as a buffer in conjunction with acetic acid, in the buffering range of pH 3.6 - 5.6. Sodium acetate is used in the purification and precipitation of nucleic acids.1,2,3 Protein crystallization,4 staining of gels in protein gel electrophoresis,5 and HPLC.6 Large scale applications of sodium acetate include its use as a retardant in plastics manufacturing, as a mordant in dyeing, and in the tanning of leather.7

A DNA microarray study of E. coli response to different levels of sodium acetate has been reported.8 Protein unfolding during reversed phase chromatography in the presence of varying salts, including sodium acetate, at different ionic strengths has been investigated.9 Sodium acetate has been used in conjunction with sodium carbonate to enhance the activation of freeze-dried subtilisin Carlsberg in organic solvents.10

Sodium acetate may be used as a substrate for acetokinase (acetate kinase).11

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

References

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