

Product Information

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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