

Product Information Sheet

Ammonium acetate

Catalogue Number **A 1542**

Storage Temperature RT

Product Description

Molecular Formula: $C_2H_7NO_2$

Molecular Weight: 77.08

CAS Number: 631-61-8

This product is designated as Molecular Biology grade and is suitable for molecular biology applications. It has been analyzed for the presence of nucleases and proteases.

Ammonium acetate is a widely used reagent in molecular biology and chromatography. Its applications include the purification and precipitation of DNA^{1,2,3} and protein crystallization.⁴

Ammonium acetate is commonly used in HPLC and MS analysis of various compounds, such as oligosaccharides,⁵ proteins,⁶ and peptides.⁷ A procedure for

Precautions and Disclaimer

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

Preparation Instructions

This product is soluble in water (570 mg/ml), yielding a clear, colorless solution.

References

1. Stemmer, W. P., A 20-minute ethidium bromide/high-salt extraction protocol for plasmid DNA. *Biotechniques*, **10(6)**, 726 (1991).
2. Saporito-Irwin, S. M., et al., Ammonium acetate protocol for the preparation of plasmid DNA suitable for mammalian cell transfections. *Biotechniques*, **23(3)**, 424-427 (1997).
3. Molecular Cloning: A Laboratory Manual, 3rd ed., Sambrook, J., and Russell, D. W., CSHL Press (Cold Spring Harbor, NY: 2001), pp. 10.20-10.21, A8.12.
4. Shilton, B. H., et al., Crystallization of a soluble form of the Kex1p serine carboxypeptidase from *Saccharomyces cerevisiae*. *Protein Sci.*, **5(2)**, 395-397 (1996).
5. Barroso, R., et al., On-line high-performance liquid chromatography/mass

- spectrometric characterization of native oligosaccharides from glycoproteins. *Rapid Commun. Mass Spectrom.*, **16(13)**, 1320-1329 (2002).
6. Troxler, H., et al., Electrospray ionization mass spectrometry: analysis of the Ca²⁺-binding properties of human recombinant alpha-parvalbumin and nine mutant proteins. *Anal. Biochem.*, **268(1)**, 64-71 (1999).
 7. Cummings, J., et al., Development of a gradient elution high-performance liquid chromatography assay with ultraviolet detection for the determination in plasma of the anticancer peptide [Arg⁶, D-Trp^{7,9}, mePhe⁸]-substance P (6-11) (antagonist G), its major metabolites and a C-terminal pyrene-labelled conjugate. *J. Chromatogr. B. Biomed. Sci. Appl.*, **732(2)**, 277-285 (1999).
 8. Yang, Q., et al., Analysis of lipophilic peptides and therapeutic drugs: on-line-nonaqueous capillary electrophoresis-mass spectrometry. *J. Biochem. Biophys. Methods*, **38(2)**, 103-121 (1999).

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