上海伊卡生物技术有限公司

Ammonium sulfate

Product Number **A0183** Store at Room Temperature

Product Description

Molecular Formula: (NH₄)₂SO₄ Molecular Weight: 132.1 CAS Number: 7783-20-2

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 sulfate is a widely used reagent in molecular biology and chromatography. Applications include the precipitation and fractionation of proteins,¹ crystallization of proteins^{2,3,4} and of protein-nucleic acid complexes.⁵ Ammonium sulfate is also widely used in HPLC of proteins, such as in hydrophobic interaction chromatography.^{6,7,8}

Ammonium sulfate is also utilized in the purification of antibodies.^{9,10} The use of ammonium sulfate in long PCR buffer, in PCR lysis solution, and in second-strand cDNA synthesis has been reported.¹¹ A protocol for the HPLC analysis of phospholipids using ammonium sulfate has been reported.¹²

Precautions and Disclaimer

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

Preparation Instructions

This product is soluble in water (435 mg/ml, 3.29 M), yielding a clear, colorless solution. Ammonium sulfate saturation charts at 0 $^{\circ}$ and 25 $^{\circ}$ C have been reported. ¹³

References

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