

Product Information

Ammonium acetate solution

Catalog Number **SRE0035**
Storage Temperature 2–8 °C

Product Description

This reagent is a 2× (5 M) Ammonium acetate stock solution. Upon dilution to 1× (2.5 M), ammonium

acetate will precipitate nucleic acids in dilute aqueous solutions. Precipitation can be used to quickly concentrate nucleic acids in combination with cold ethanol or isopropanol, and centrifugation. Beneficially, there is less co-precipitation of detergents with ammonium acetate than with sodium chloride.

Reagents and Equipment Required but Not Provided.

- Sample containing nucleic acids
- Cold ethanol or isopropanol
- Centrifuge
- Calibrated or maintained pipettes

Precautions and Disclaimer

For manufacturing, processing, or repacking. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Stable for two years from the date of manufacture when stored at 2–8 °C. Do not use past expiration date printed on product label.

Procedure

1. Add of volume of 2× (5 M) Ammonium acetate solution equal to the volume of the sample solution containing nucleic acids.
2. Add a volume of cold (–20 °C) ethanol or isopropanol equal to 2–3 times the volume of the mixture from step 1.
3. Mix gently and allow the nucleic acids to precipitate.
4. Recover the nucleic acids by centrifugation and remove the supernatant.
5. The resulting pellet can be further rinsed with cold ethanol or isopropanol, and resuspended in the buffer of choice for further usage.

References

1. MacDonald, R.J. et al., *Methods Enzymol.*, **152**, 219-227 (1987).
2. Green, M.R. and Sambrook, J., *Molecular Cloning: A Laboratory Manual*, Fourth Edition, Cold Spring Harbor Laboratory Press, (Cold Spring Harbor, New York: 2012).

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