

3 M Sodium Acetate, pH 5.5

Store at room temperature.

Catalog # (P/N):	AM9740
Amount:	100 mL
Product Description:	A nuclease-free solution for routine precipitation of nucleic acids.
Appearance:	Colorless liquid
Storage Conditions:	Store at room temperature.

USER INFORMATION

General Information: Ambion® 3 M Sodium Acetate is provided nuclease-free, ready for use, and requires no extra preparation. This solution has been filtered through a 0.2 µm filter into a sterile autoclavable bottle.

Applications: **Routine Precipitation of DNA or RNA at Concentrations ≥20 ng/mL**

1. Use 3 M Sodium Acetate to bring the final concentration of sodium acetate in the solution to 0.3 M.
2. Add 2 volumes of 100% ethanol for DNA or 2.5 volumes of 100% ethanol for RNA.
3. Chill the solution at or below –20°C for ≥30 min.
4. Centrifuge at top speed in a microcentrifuge for 15 min.
5. Discard the supernatant and wash the pellet with ice cold 70–75% ethanol to remove residual salt.
6. Resuspend in nuclease-free water (P/N AM9937) or 10 mM Tris, pH 7–8, 1 mM EDTA.

Note: Do not add Sodium Acetate to solutions of DNA before phenol extractions; this can cause some of the DNA to migrate into the organic phase. Add Sodium Acetate to the aqueous phase after phenol extractions.

QUALITY CONTROL

3 M Sodium Acetate is tested in the following quality control assays before and after final packaging.

Nonspecific Endonuclease Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 300 ng supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.

Exonuclease Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 40 ng labeled *Sau3A* fragments of pUC19 and analyzed by PAGE.

RNase Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 25 ng labeled RNA and analyzed by PAGE.

OTHER INFORMATION

Material Safety Data Sheets: Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS_Inquiry_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by telephone or postal mail. (Requests for postal delivery require 1–2 weeks for processing.)

Warranty and Liability: *For research use only. Not for use in diagnostic procedures.*

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