

# 3 M Potassium Acetate, pH 5.5

Store at room temperature.

<b>Catalog # (P/N):</b>	AM9610
<b>Amount:</b>	100 mL
<b>Product Description:</b>	A nuclease-free solution for routine precipitation of nucleic acids.
<b>Appearance:</b>	Colorless liquid
<b>Storage Conditions:</b>	Store at room temperature.

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## USER INFORMATION

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**General Information:** Potassium acetate is used in routine precipitation of DNA and RNA, and for buffering in the pH range of 3.8–5.8. It is particularly useful in the precipitation of RNA for cell-free translation because it avoids the addition of sodium ions.

Ambion® 3 M Potassium 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 Potassium Acetate to bring the final concentration of potassium 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:** Avoid using potassium acetate for the precipitation of RNA from solutions containing SDS; the potassium salt of SDS is highly insoluble.

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## QUALITY CONTROL

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

<b>Nonspecific Endonuclease Activity:</b>	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.
<b>Exonuclease Activity:</b>	Meets or exceeds specification when a sample is incubated for 14–16 hr with 40 ng labeled <i>Sau3A</i> fragments of pUC19 and analyzed by PAGE.
<b>RNase Activity:</b>	Meets or exceeds specification when a sample is incubated for 14–16 hr with 25 ng labeled RNA and analyzed by PAGE.

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## OTHER INFORMATION

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**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](http://www.ambion.com/techlib/msds). Alternatively, e-mail your request to [MSDS\\_Inquiry\\_CCRM@appliedbiosystems.com](mailto: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:

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