

Quick Start Guide

GenElute™ Total Mammalian RNA Kit

RTN70, RTN350

Reagents to Prepare

- Dilute the Wash Solution 2 Concentrate with 10 mL (10 preps), 60 mL (70 preps), or 300 mL (350 preps) of 95-100% ethanol. After each use, tightly cap the diluted Wash Solution 2 to prevent ethanol evaporation.
- Add 10 µL of 2-ME for each 1 mL of Lysis Solution needed for that day's use. Typically 250 or 500 µL of Lysis Solution/2-ME Mixture per RNA preparation.

Protocol

All spins at $\geq 12,000 \times g$.

Release RNA from Cells or Tissues

1. Lyse cells or homogenize tissue in 250 or 500 µL lysis solution/2-ME mixture.
Optional: Transfer lysate to blue filtration column. Spin 2 min.

Bind RNA to Column

2. Add equal volume of 70% ethanol to filtrate (250 or 500 µL). Mix thoroughly.
3. Transfer up to 700 µL lysate/ethanol mixture to column.
4. Spin 15 sec. Discard flowthrough and repeat if necessary.

Wash to Remove Contaminants

5. Add 500 µL Wash Solution 1 to column. Spin 15 sec.
6. Transfer column to new collection tube.
7. **2x:** Add 500 µL Wash Solution 2 to column. Spin 15 sec. Discard wash solution.
8. Spin 2 min to remove ethanol.

Elute Purified DNA

9. Transfer column to new collection tube.
10. Add 50 µL Elution Solution to column. Spin 1 min. Repeat if $> 100 \mu\text{g}$ RNA expected.

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