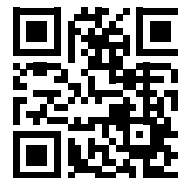


# RNA-Lock Reagent

Revision No: 2.0

## Quick Guide

Please visit [www.omegabiotek.com](http://www.omegabiotek.com) for a downloadable user manual containing additional protocols, troubleshooting tips, and ordering information.



### Product

RNA-Lock Reagent

### R0424-1000

1000 mL

### Supplied by user:

- Microcentrifuge capable of at least 14,000 x g
- Nuclease-free 1.5 mL microcentrifuge tubes (Cat# SSI-1210-00)
- PBS (Cell Preservation Protocol)
- E.Z.N.A. Total RNA Kit 1 (R6834) or E.Z.N.A. Total RNA Midi Kit (R6664) for RNA Purification

## Total RNA Preservation from Tissue

**WARNING:** This reagent is toxic if swallowed. After contact with skin, wash immediately with copious amounts of mild detergent and water.

LYSE

1. Harvest tissue sample.
2. Cut the samples into smallest possible slices (< 0.25 cm).
3. For every 15 mg of sample add 500  $\mu$ L RNA-Lock Reagent and immediately immerse the sample into the appropriate volume of RNA-Lock Reagent. Make sure that the sample is fully covered by RNA-Lock Reagent.
4. Samples in RNA-Lock Reagent can stored up to 24 hours at 30-37°C, 7 days at room temperature (20-25°C), or 12 months at -20°C.

## Total RNA Preservation from Cells

**WARNING:** This reagent is toxic if swallowed. After contact with skin, wash immediately with copious amounts of mild detergent and water.

LYSE

1. Centrifuge up to  $3 \times 10^5$  cells at 300 x g for 10 minutes.
2. Discard supernatant.
3. Wash cells with PBS.
4. Resuspend the cells with 50-100  $\mu$ L PBS.
5. Add 500  $\mu$ L to 1 mL RNA-Lock Reagent.
6. Samples in RNA-Lock Reagent can stored up to 24 hours at 30-37°C, 7 days at room temperature (20-25°C), or 12 months at -20°C.

Total RNA Extraction from Tissues in RNA-Lock Reagent

**WARNING:** This reagent is toxic if swallowed. After contact with skin, wash immediately with copious amounts of mild detergent and water.

- BIND
1.

Use the Total RNA Kit I (R6834) for < 25 mg tissue or the Total RNA Midi Kit (R6664) for 25-200 mg tissue. Add the appropriate volume of TRK Lysis Buffer to the tissue/RNA-Lock Reagent mixture.
2.

Homogenize the sample as described in the protocol.
3.

Clear the lysate by centrifugation as described in the protocol.
4.

Add 1 volume 70% ethanol and transfer the sample to the column.
5.

Continue to step 6 in the E.Z.N.A. Total RNA Kit I (R6834) Animal Tissue Protocol (Revision August 2012) for samples < 25 mg or step in the E.Z.N.A. Total RNA Midi Kit (R6664) Animal Tissue Protocol (Revision June 2013) for samples 25-200 mg.

Total RNA Extraction from Cells in RNA-Lock Reagent

**WARNING:** This reagent is toxic if swallowed. After contact with skin, wash immediately with copious amounts of mild detergent and water.

- BIND
1.

Transfer 150 µL cells/RNA-Lock Reagent mixture to a RNase-free 1.5 mL microcentrifuge tube.
2.

Add 200 µL TRK Lysis Buffer. Mix thoroughly by pipetting up and down 3-5 times.
3.

Add 350 µL 70% ethanol. Mix thoroughly by pipetting up and down 3-5 times. Do not centrifuge.
4.

Continue to step 6 in the E.Z.N.A. Total RNA Kit I (R6834) Cultured Cells Protocol (Revision August 2012).

Ordering Information

Product	Part Number
Total RNA Kit I (50 Preps)	R6834-01
Total RNA Kit I (200 Preps)	R6834-02
Total RNA Midi Kit (25 Preps)	R6664-02