

MagAttract® RNA Tissue Mini M48 Kit

The MagAttract RNA Tissue Mini M48 Kit (cat. no. 959236) can be stored for at least 9 months: store the RNase-Free DNase Set box at 2–8°C immediately upon receipt and the remaining components at room temperature (15–25°C).

Further information

- *MagAttract RNA M48 Handbook*: www.qiagen.com/handbooks
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: toll-free 00800-22-44-6000, or www.qiagen.com/contact

Notes before starting

- For best results, stabilize animal tissues immediately in *RNAlater*® RNA Stabilization Reagent or Allprotect Tissue Reagent. See the *RNAlater Handbook* or *Allprotect Tissue Reagent Handbook* for more information.
- Fresh, frozen, or *RNAlater* stabilized tissue can be used. To freeze tissue for long-term storage, flash-freeze in liquid nitrogen, and immediately transfer to –70°C. Do not allow tissue to thaw during weighing or handling before disruption. Homogenized tissue lysates (in Buffer RLT, step 2) can also be stored at –70°C. Thaw samples at room temperature (15–25°C) or at 37°C until precipitates are dissolved. Continue with step 3.
- Buffer RLT and Buffer MW contain a guanidine salt and are therefore not compatible with disinfecting reagents containing bleach. Take appropriate safety measures and wear gloves when handling.
- All steps of the protocol should be performed at room temperature.
- Ensure that MagAttract Suspension E is fully resuspended. Vortex for at least 3 min before first use, and for 1 min before subsequent uses.
- Redissolve precipitates in Buffer RLT by warming and then place at room temperature.
- Add 10 µl β-ME per 1 ml Buffer RLT. Dispense in a fume hood and wear appropriate protective clothing.
- Add 4 volumes of ethanol (96–100%) to Buffer RPE as indicated on the bottle.

November 2012



- Prepare DNase I stock solution by dissolving the solid DNase I (1500 Kunitz units) in 550 μ l of the RNase-free water provided. **Do not vortex.**

Procedure

1. Excise the tissue sample from the animal or remove it from storage and cut to the required size. Determine the weight of the piece, and place it into a suitably sized vessel for homogenization. Do not use more than 10 mg tissue or 5 mg for high cell density tissue, such as spleen.

Perform this step as quickly as possible with fresh tissue. Do not allow frozen tissue to thaw unless it has been stabilized using *RNAlater* RNA Stabilization Reagent. Proceed immediately with step 2.

2. Disrupt and homogenize in Buffer RLT as described in the handbook.
3. Centrifuge the tissue lysate for 3 min at maximum speed in a microcentrifuge. Carefully transfer the supernatant to a new microcentrifuge tube (not supplied) by pipetting. Use only this supernatant (lysate) in subsequent steps.
4. Transfer the homogenized lysates to 1.5 ml or 2 ml sample tubes that are compatible with the sample rack of the BioRobot® M48.
5. Ensure that the BioRobot M48, computer, and monitor are switched on.
6. Launch the QIAsoft M Operating System.
7. Select the protocol group “Gene Expression” from the drop-down menu by clicking the dark green arrow; select “Total RNA” and then “RNA Tissue”.
8. Click the “Select” button to choose the elution tube type. Select the number of samples and the sample and elution volumes. Click “Next”. Follow the instructions displayed by the QIAsoft M software.
9. Close the door and start the protocol when instructed by the software.
10. Retrieve the elution tubes containing the purified RNA. The RNA is ready to use, or can be stored at -20°C or -70°C for longer periods.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN® kit handbook or user manual.

Trademarks: QIAGEN®, BioRobot®, MagAttract® (QIAGEN Group). “RNAlater” is a trademark of AMBION, Inc., Austin, Texas and is covered by various U.S. and foreign patents. 1074366 11/2012 © 2012 QIAGEN, all rights reserved.

