

MagAttract® RNA Cell Mini M48 Kit

The MagAttract RNA Cell Mini M48 Kit (cat. no. 958236) 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

Important points before starting

- Cell pellets can be stored at –70°C for later use or used directly in the procedure. Determine the number of cells before freezing. Frozen cell pellets should be thawed slightly so that cell pellets can be dislodged by flicking in step 2. Homogenized cell lysates (in Buffer RLT, step 3) can be stored at –70°C for several months. To process frozen lysates, thaw samples at room temperature (15–25°C) or at 37°C in a water bath until they are completely thawed and salts in the lysis buffer are dissolved. Avoid extended treatment at 37°C, which can cause chemical degradation of the RNA. If any insoluble material is visible, centrifuge for 5 minutes at 3000–5000 x g. Transfer supernatant to a new RNase-free glass or polypropylene tube, and continue with step 4.
- 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.

- β -ME may be optionally added to Buffer RLT before use to increase RNA yields when purifying RNA from white blood cells or if RNA integrity from previous purification procedures was low. If using β -ME, add 10 μ l 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.
- 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. Harvest cells according to instructions in the handbook.
2. For pelleted cells, loosen the cell pellet thoroughly by flicking the tube. Add 400 μ l Buffer RLT. Vortex or pipet to mix, and proceed to step 3.
3. Homogenize the sample according to instructions in the handbook.
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 Cell”.
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 workstation 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.

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