Quick-Start Protocol March 2016

RNeasy® MinElute® Cleanup Kit

Store RNeasy MinElute (cat. no. 74204) spin columns immediately upon receipt at 2–8°C. Store the remaining components of the RNeasy MinElute Cleanup Kit dry at room temperature (15–25°C). All components of the kit are stable for at least 9 months under these conditions if not otherwise stated on label.

Further information

- *RNeasy MinElute Cleanup Handbook*: **www.qiagen.com/HB-0486**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- Add 4 volumes of ethanol (96–100%) to Buffer RPE for a working solution.
- In the procedure below, ▲ refers to use of starting volumes ≤100 µl, and ● refers to use of starting volumes of 100–200 µl.

RNA cleanup and concentration

1. Adjust the sample to a volume of ▲ 100 µl or ● 200 µl with RNase-free water. Alternatively, follow steps in "DNase digestion of RNA before RNA cleanup" in Appendix C of *RNeasy MinElute Cleanup Handbook* prior to cleanup. Add ▲ 350 µl or ● 700 µl Buffer RLT, and mix well.
2. Add ▲ 250 µl or ● 500 µl of 96–100% ethanol to the diluted RNA, and mix well by pipetting. Do not centrifuge. Proceed immediately to step 3.
3. Transfer the sample (700 µl) to an RNeasy MinElute spin column placed in a 2 ml collection tube (supplied). Close the lid gently, and centrifuge for 15 s at ≥8000 x *g* (≥10,000 rpm). Discard the flow-through.
   For ● samples >700 µl, transfer the remaining sample (up to 700 µl) and repeat the centrifugation. Discard the flow-through.

4. Place the RNeasy MinElute spin column in a new 2 ml collection tube (supplied). Add 500 µl Buffer RPE to the spin column. Close the lid gently, and centrifuge for 15 s at ≥8000 x *g* (≥10,000 rpm) to wash the spin column membrane. Discard the flow-through.
5. Add 500 µl of 80% ethanol to the RNeasy MinElute spin column. Close the lid gently, and centrifuge for 2 min at ≥8000 x *g* (≥10,000 rpm) to wash the spin column membrane. Discard the flow-through and collection tube.
6. Place the RNeasy MinElute spin column in a new 2 ml collection tube (supplied). Open the lid of the spin column, and centrifuge at full speed for 5 min to dry the membrane. Discard the flow-through and collection tube.
7. Place the RNeasy MinElute spin column in a new 1.5 ml collection tube (supplied). Add 14 µl RNase-free water directly to the center of the spin column membrane. Close the lid gently, and centrifuge for 1 min at full speed to elute the RNA.

Concentration of RNA purified using the PAXgene® Blood RNA Kit

1. Heat a heating block or water bath to 65°C for use in step 4.
2. Proceed with steps 1–6 of the protocol "RNA cleanup and concentration".
3. Place the RNeasy MinElute spin column in a new 1.5 ml collection tube (supplied). Add 14 µl of elution buffer BR5 (from the PAXgene Blood RNA Kit) directly to the center of the spin column membrane. Close the lid gently, and centrifuge for 1 min at full speed to elute the RNA.
4. Incubate the eluate for 5 min at 65°C in a heating block or water bath. After incubation, chill immediately on ice.

Scan QR code for handbook.

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