Quick-Start Protocol January 2017

RNeasy® PowerClean® Pro Cleanup Kit

The RNeasy PowerClean Pro Cleanup Kit can be stored at room temperature (15–25°C) until the expiry date printed on the box label.

Further information

- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- Shake Solution SB before use.

1. Add up to 100 µl of RNA sample to a 2 ml collection tube (provided). If there is less than 100 µl of RNA sample, adjust the volume to 100 µl with RNase-free water (provided).
2. Add 50 µl of Solution CU and vortex briefly to mix.
3. Add 50 µl of Solution IR and vortex briefly to mix.
4. Centrifuge at 13,000 x *g* for 2 min at room temperature.
5. Avoiding the pellet, transfer the entire volume of supernatant to a clean 2 ml collection tube (provided). Expect 160–190 µl of supernatant.
6. Shake to mix Solution SB. Add 200 µl of Solution SB and 200 µl of 100% ethanol and vortex briefly to mix.
   Note: To purify microRNAs, add an additional 200 µl of 100% ethanol and vortex briefly to mix.
7. Centrifuge tubes briefly to remove any solution from the cap.
8. Load up to 600 µl onto an MB RNA Spin Column and centrifuge at 10,000 x *g* for 1 min at room temperature. Discard the flow through.

Note: If 200 µl of 100% ethanol was added to recover microRNAs (in Step 6), repeat Step 8 with the remaining volume of liquid.

9. Add 500 µl of Solution RW to the MB RNA Spin Column and centrifuge at 10,000 x *g* for 30 s at room temperature. Discard the flow through.
10. Add another 500 µl of Solution RW to the MB RNA Spin Column and centrifuge at 10,000 x *g* for 30 s at room temperature. Discard the flow through.
11. Centrifuge the MB RNA Spin Column at maximum speed for 2 min at room temperature to remove any residual ethanol.
12. Carefully place the MB RNA Spin Column in a new 2 ml collection tube (provided). Avoid splashing any Solution RW onto the MB RNA Spin Column.
13. To elute the RNA, add between 50–100 µl of RNase-free water (provided) to the center of the white column membrane. Incubate for 1 min at room temperature.
    Note: For efficient recovery, use a **minimum** of 50 µl of RNase-free water.
14. Centrifuge at 10,000 x *g* for 1 min at room temperature.
15. Discard the MB RNA Spin Column. The RNA is now ready for downstream applications and may be stored at –65° to –90°C.