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miRNeasy 96 Kit

The miRNeasy 96 Kit (cat. no. 217061) can be stored at room temperature (15–25°C) for up to 9 months if not otherwise stated on label.

Further information

miRNeasy 96 Handbook: www.qiagen.com/HB-1253

Safety Data Sheets: www.qiagen.com/safety

Technical assistance: support.giagen.com

Notes before starting

- For more information, including preparation of miRNA-enriched fractions, optional DNase treatment and general handling advice, refer to the miRNeasy Mini Handbook, which can be found at www.qiagen.com/HB-1277.
- QIAzol® Lysis Reagent and Buffer RWT contain a guanidine salt and are therefore not compatible with disinfecting reagents containing bleach.
- Add ethanol (96%–100%) to Buffer RWT and Buffer RPE as indicated on the bottle label.
 Dissolve any precipitates in Buffer RWT by warming.
- Equilibrate buffers to room temperature (15–25°C).
- A vacuum source capable of generating a vacuum pressure of -800 to -900 mbar is necessary. After switching on, apply vacuum until transfer is complete (1-5 min). Switch off the vacuum and ventilate the manifold.
- All centrifugation steps in the protocol are performed in a Centrifuge 4–16K.
- Step 6 and step 9 should be carried out at 4°C. All other steps should be performed at room temperature.
- 1. Prepare the QIAvac 96 vacuum manifold and harvest cells as described in the handbook.
- 2. Loosen the cell pellet by flicking the tube. Add 700 µl QlAzol Lysis Reagent to each plate well/collection microtube. Pipet up and down 3 times.

- 3. If the lysates are in plate wells, transfer to collection microtubes (supplied).
- 4. Close the collection microtubes using the supplied caps, and vortex for 1 min at maximum speed. If cell number is >3 x 10° cells, homogenize with the TissueLyser II as described in the *miRNeasy 96 Handbook*.
- 5. Incubate homogenates at room temperature (15–25°C) for 5 min.
- 6. Centrifuge at 5600 x g (approximately 6000 rpm) for 1 min at 4°C.
- 7. Add 140 µl chloroform. Securely cap the homogenates using new strips of collection microtube caps. Shake the rack vigorously for 15 s.
- 8. Incubate at room temperature for 2-3 min.
- 9. Centrifuge at 6000 x g for 15 min at 4°C.
- 10. Transfer the upper aqueous phases to a new S-Block. Add 1.5 volumes of 100% ethanol and mix. Proceed immediately to step 11.
- 11. Pipet the samples into the wells of the RNeasy® 96 plate and apply vacuum.
- 12.Add 800 µl Buffer RWT to each well of the RNeasy 96 plate. Apply vacuum.
- 13.Lift the top plate carrying the RNeasy 96 plate off the base, and empty the waste tray. Reassemble the QIAvac 96 vacuum manifold.
- 14.Add 800 µl Buffer RPE to each well and apply vacuum. Repeat.
- 15. Place the RNeasy 96 plate on top of an S-Block. Seal with an AirPore Tape Sheet. Load into the holder and place the whole assembly in the rotor bucket. Centrifuge at 6000 rpm for 10 min at room temperature.
- 16.Remove the AirPore Tape Sheet. Place the RNeasy 96 plate on top of a clean elution microtube rack containing elution microtubes.
- $17.Add\ 45-70\ \mu l\ RN$ as e-free water to each well and seal with a new tape sheet. Incubate for 1 min. Centrifuge at 6000 rpm for 4 min at room temperature.
- 18.Remove the AirPore Tape Sheet. Repeat the elution step (step 17) with a second volume of 45–70 µl RNase-free water.



Scan QR code for handbook.

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