

Quick-Start Protocol

RNeasy[®] Lipid Tissue Mini Kit

The RNeasy Lipid Tissue Mini Kit (cat. no. 74804) can be stored at room temperature (15–25°C) for at least 9 months if not otherwise stated on label. QIAzol[®] Lysis Reagent can be stored at room temperature or at 2–8°C.

Further information

- *RNeasy Lipid Tissue Mini Handbook*: www.qiagen.com/HB-0144
- 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.
1. Disrupt and homogenize ≤ 100 mg fatty tissue (≤ 50 mg other tissue) in 1 ml QIAzol Lysis Reagent using the TissueRuptor[®], Tissuelyser LT or Tissuelyser II.
 2. Incubate the homogenate at room temperature for 5 min.
 3. Add 200 μ l chloroform, and shake vigorously for 15 s.
 4. Incubate sample at room temperature for 2–3 min.
 5. Centrifuge at 12,000 $\times g$ for 15 min at 4°C.
 6. Transfer upper, aqueous phase to a new tube. Be careful to avoid the interphase. Add 1 volume of 70% ethanol, and vortex. Do not centrifuge. Proceed at once to step 7.

7. Transfer up to 700 μ l of the sample to RNeasy Mini spin column in 2 ml collection tube (supplied). Close the lid, centrifuge at room temperature for 15 s at $\geq 8000 \times g$ and discard flow-through.
8. Using the same collection tube, repeat step 7 using the remainder of the sample. Discard the flow-through.
Optional DNase digest: Follow steps in “Optional On-Column DNase Digestion with the RNase-Free DNase Set” in Appendix C of the *RNeasy Lipid Tissue Mini Handbook*.
9. Add 700 μ l Buffer RW1 to RNeasy column. Close lid, centrifuge for 15 s at $\geq 8000 \times g$ and discard flow-through. (Skip this step if performing optional DNase digestion.)
10. Add 500 μ l Buffer RPE to RNeasy column. Close lid, centrifuge for 15 s at $\geq 8000 \times g$ and discard flow-through.
11. Add 500 μ l Buffer RPE to RNeasy column. Close lid and centrifuge for 2 min at $\geq 8000 \times g$.
Optional: To further dry membrane, place RNeasy column in new 2 ml tube, close lid and centrifuge at full speed for 1 min.
12. Place RNeasy column in a new 1.5 ml tube. Add 30–50 μ l RNase-free water, close lid and centrifuge for 1 min at $\geq 8000 \times g$.

Revision History

| Document | Changes | Date |
|-------------|--|---------------|
| HB-0565-003 | Deleted Table 1 and all cross-references to it. Inserted “Mini” in all cross-references to the “ <i>RNeasy Lipid Tissue Handbook</i> ” (i.e., “ <i>RNeasy Lipid Tissue Mini Handbook</i> ”). | February 2019 |



Scan QR code for handbook.

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