

# RNeasy® Fibrous Tissue Mini Kit

The RNeasy Fibrous Tissue Kit (cat. no. 74704) is shipped at ambient temperature. The RNase-Free DNase Set box, containing RNase-free DNase, Buffer RDD and RNase-free water, should be stored immediately upon receipt at 2–8°C. The remaining components of the RNeasy Fibrous Tissue Kit should be stored dry at room temperature (15–25°C). All components are stable for at least 9 months under these conditions if not otherwise stated on label.

## Further information

- *RNeasy Fibrous Tissue Handbook*: [www.qiagen.com/HB-0485](http://www.qiagen.com/HB-0485)
- Safety Data Sheets: [www.qiagen.com/safety](http://www.qiagen.com/safety)
- Technical assistance: [support.qiagen.com](http://support.qiagen.com)

## Notes before starting

- Unless otherwise indicated, perform the procedure, as well as all centrifugation steps, at room temperature (15–25°C). Work quickly.
  - Add 10 µl β-mercaptoethanol (β-ME), or 20 µl 2 M dithiothreitol (DTT), per 1 ml Buffer RLT before use. Buffer RLT containing DTT or β-ME can be stored at room temperature for up to 1 month.
  - Add 4 volumes of ethanol (96–100%) to Buffer RPE for a working solution.
  - Prepare DNase I stock solution. Dissolve the lyophilized DNase I in 550 µl RNase-free water by injecting the RNase-free water into the vial using an RNase-free needle and syringe. Mix gently by inverting the vial. Do not vortex. Store DNase I as single-use aliquots at –20°C for up to 9 months or at 2–8°C for up to 6 weeks. Do not refreeze after thawing.
1. Heat water bath or heating block to 55°C.

2. Disrupt and homogenize  $\leq 30$  mg tissue in 300  $\mu$ l Buffer RLT using the TissueRuptor<sup>®</sup>, TissueLyser LT or TissueLyser II.
3. Add 590  $\mu$ l RNase-free water, then 10  $\mu$ l proteinase K, mix and incubate at 55°C for 10 min.
4. Centrifuge at 10,000  $\times g$  for 3 min.
5. Transfer supernatant to new tube. Add 0.5 volumes of 96–100% ethanol, and mix. Do not centrifuge.
6. Transfer 700  $\mu$ l of sample to RNeasy Mini column (in a 2 ml collection tube). Close lid, centrifuge for 15 s at  $\geq 8000 \times g$  and discard flow-through. Repeat step until complete lysate is used.
7. Add 350  $\mu$ l Buffer RW1 to RNeasy column. Close lid, centrifuge for 15 s at  $\geq 8000 \times g$  and discard flow-through.
8. Mix 10  $\mu$ l DNase stock solution with 70  $\mu$ l Buffer RDD, add to RNeasy membrane and incubate for 15 min at 20–30°C.
9. Add 350  $\mu$ l Buffer RW1 to RNeasy column. Close lid, centrifuge for 15 s at  $\geq 8000 \times g$  and discard flow-through.
10. Add 500  $\mu$ l Buffer RPE to RNeasy column. Close lid, centrifuge for 15 s at  $\geq 8000 \times g$  and discard flow-through.
11. Add 500  $\mu$ l Buffer RPE to RNeasy column. Close lid, centrifuge for 2 min at  $\geq 8000 \times g$ .  
**Optional:** Place RNeasy column in new 2 ml tube, close lid and centrifuge at full speed for 1 min.
12. Place RNeasy column in new 1.5 ml tube. Add 30–50  $\mu$ l RNase-free water, close lid and centrifuge for 1 min at  $\geq 8000 \times g$ .  
**Optional:** Repeat elution with another volume of water or with RNA eluate.



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