

RNeasy® UCP Micro Kit

The RNeasy UCP Micro Kit (cat. no. 73934) is shipped at ambient temperature. Store the RNeasy UCP MinElute® spin columns and the RNase-Free DNase Set immediately upon receipt at 2–8°C. Store the remaining components dry at room temperature (15–25°C). All kit components are stable for at least 9 months under these conditions.

Further information

- *RNeasy UCP Micro Kit Handbook*: www.qiagen.com/HB-2302
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Notes before starting

- If purifying RNA from cell lines rich in RNases or tissue, add either 10 µl β-mercaptoethanol (β-ME) or 20 µl 2 M dithiothreitol (DTT) to 1 ml Buffer RULT before use. Buffer RULT containing DTT or β-ME can be stored at room temperature for up to 1 month.
- Buffers RUWT and RUPE are supplied as concentrates. Before using for the first time, add the required volumes of ethanol (96–100%), as indicated on the bottle, to obtain a working solution.
- To prepare DNase I stock solution, dissolve the lyophilized DNase I in 550 µl RNase-free water. Mix gently by inverting the vial. Do not vortex.
- Store DNase I as single-use aliquots at –15 to –30 °C for up to 9 months or store at 2–8°C for up to 6 weeks. Do not refreeze after thawing.

Procedure

- Cells:** Harvest a maximum of 5×10^5 cells as a cell pellet or by direct lysis in the vessel. Add 350 μ l Buffer RULT and homogenize.
Tissues: Disrupt and homogenize ≤ 5 mg tissue in 350 μ l Buffer RULT using the TissueRuptor® or TissueLyser instrument. Centrifuge the lysate for 3 min at maximum speed. Carefully remove the supernatant by pipetting, and use for step 2.
 - Add 1 volume of 70% ethanol to the lysate and mix well by pipetting. Do not centrifuge. Proceed immediately to step 3.
 - Transfer the sample, with any precipitate, to an RNeasy UCP MinElute spin column in a 2 ml collection tube (supplied). Close the lid and centrifuge for 15 s at $\geq 8000 \times g$. Discard the flow-through.
 - Add 350 μ l Buffer RUWT to the RNeasy UCP MinElute spin column. Close the lid. Centrifuge for 15 s at $\geq 8000 \times g$. Discard the flow-through.
 - Add 10 μ l DNase I stock solution to 70 μ l Buffer RDD. Mix by inverting the tube. Add the DNase I incubation mix (80 μ l) directly to the RNeasy UCP MinElute spin-column membrane. Place on the benchtop (15 to 25 °C) for 15 min. Add 350 μ l Buffer RUWT to the RNeasy UCP MinElute spin column. Close the lid and centrifuge for 15 s at $\geq 8000 \times g$. Discard the collection tube.
 - Place the RNeasy UCP MinElute spin column in a new 2 ml collection tube (supplied). Add 500 μ l Buffer RUPE to the spin column. Close the lid and centrifuge for 15 s at $\geq 8000 \times g$. Discard the flow-through.
 - Add 500 μ l of 80% ethanol to the RNeasy UCP MinElute spin column. Close the lid and centrifuge for 2 min at $\geq 8000 \times g$. Discard the collection tube.
 - Place the RNeasy UCP 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.
 - Place the RNeasy UCP MinElute spin column in a new 1.5 ml collection tube (supplied). Add 14 μ l 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.
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Revision history

Document	Date	Description of changes
RNeasy UCP Micro Kit Quick-Start Protocol	September 2016	Initial release
RNeasy UCP Micro Kit Quick-Start Protocol	December 2017	Updated details for preparing working solutions of Buffers RUWT and RUPE