Quick-Start Protocol April 2016

AllPrep DNA/RNA Mini Kit, Part 2

The AllPrep DNA/RNA Mini Kit (cat. no. 80204) should be stored dry at room temperature (15–25°C) and is stable for at least 9 months under these conditions if not otherwise stated on label.

The AllPrep DNA/RNA Mini Kit purifies genomic DNA and total RNA simultaneously from a single sample. Lysate from homogenized cells or tissue is first passed through an AllPrep DNA spin column to isolate DNA, then through an RNeasy® spin column to isolate RNA.

Further information

- *AllPrep DNA/RNA Mini Handbook*: **www.qiagen.com/HB-0576**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Total RNA purification

1. Add 1 volume of 70% ethanol to the flow-through from step 2 in *Quick-Start Protocol AllPrep DNA/RNA Mini Kit, Part 1*. Mix well by pipetting. Do not centrifuge. Proceed immediately to step 2.
2. Transfer up to 700 µl of the sample, including any precipitate, to an RNeasy spin column placed in a 2 ml collection tube (supplied). Centrifuge for 15 s at ≥8000 x *g* (≥10,000 rpm). Discard the flow-through.

   Note: Reuse this collection tube through steps 3, 4 and 5.
3. Add 700 µl Buffer RW1 to the RNeasy spin column. Close the lid, and centrifuge for 15 s at ≥8000 x *g* (≥10,000 rpm). Discard the flow-through.
4. Add 500 µl Buffer RPE to the RNeasy spin column. Close the lid, and centrifuge for 15 s at ≥8000 x *g* (≥10,000 rpm). Discard the flow-through.
5. Add 500 µl Buffer RPE to the RNeasy spin column. Close the lid, and centrifuge for 2 min at ≥8000 x *g* (≥10,000 rpm).

Optional: Place the RNeasy spin column in a new 2 ml collection tube (supplied). Discard the old collection tube with the flow-through. Centrifuge at full speed for 1 min to dry the spin column membrane.

6. Place the RNeasy spin column in a new 1.5 ml collection tube (supplied). Add 30–50 µl RNase-free water directly to the spin column membrane. Close the lid gently, and centrifuge for 1 min at ≥8000 x *g* (≥10,000 rpm) to elute the RNA.

   Optional: If the expected RNA yield is >30 µg, repeat step 6 using another 30–50 µl of RNase-free water, or using the eluate from step 6 (if high RNA concentration is required). Reuse the collection tube from step 6.

Genomic DNA purification

1. Add 500 µl Buffer AW1 to the AllPrep DNA spin column (in 2 ml collection tube) from step 4 in Quick-StartProtocol AllPrep DNA/RNA Mini Kit, Part 1. Close the lid gently, and centrifuge for 15 s at ≥8000 x *g* (≥10,000 rpm) to wash the spin column membrane. Discard the flow-through. Reuse the collection tube in step 2.
2. Add 500 µl Buffer AW2 to the AllPrep DNA spin column. Close the lid gently, and centrifuge for 2 min at full speed to wash the spin column membrane.
3. Place the AllPrep DNA spin column in a new 1.5 ml collection tube (supplied). Add 100 µl Buffer EB directly to the spin column membrane and close the lid. Incubate at room temperature (15–25°C) for 1 min. Centrifuge for 1 min at ≥8000 x *g* (≥10,000 rpm) to elute the DNA.

   Optional: Repeat step 3 using another 100 µl of Buffer EB, or using the eluate from step 3 (if higher DNA concentration is required). Reuse the collection tube from step 3.

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