Quick-Start Protocol April 2018

QIAamp® DNA Mini Kit

The QIAamp DNA Mini Kit (cat. nos. 51304 and 51306) can be stored at room temperature (15–25°C) for up to 12 months.

Further information

- *QIAamp DNA Mini and Blood Mini Handbook*: **www.qiagen.com/HB-0329**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- Perform all centrifugation steps at room temperature (15–25°C).
- Use carrier DNA if the sample contains <10,000 genome equivalents. Refer to the handbook for required equipment and procedure.
- If a precipitate has formed in Buffer ATL or Buffer AL, dissolve by incubating at 56°C.
- Add ethanol to Buffer AW1 and Buffer AW2 concentrates, as indicated on the bottle.
- Equilibrate samples to room temperature (15–25°C).
- Heat two water baths or heating blocks: one to 56°C for use in step 1 and one to 70°C for use in step 3.

  Refer to the handbook for protocols for swabs, dried blood spots, cultured cells, fixed tissue, bacteria, yeast or other material.

1. Cut tissue (≤25 mg) into small pieces and place in a 1.5 ml microcentrifuge tube. Add 180 µl Buffer ATL and 20 µl Proteinase K, mix by vortexing and incubate at 56°C until completely lysed (1–3 h). Vortex occasionally during incubation.
2. Add 200 µl Buffer AL. Mix thoroughly by vortexing for 15 s.
3. Incubate at 70°C for 10 min. Briefly centrifuge the tube to remove drops from the lid.
4. Add 200 µl ethanol (96–100%). Vortex for 15 s. Briefly centrifuge the tube to remove drops from the lid.
5. Pipet the mixture onto the QIAamp Mini spin column (in a 2 ml collection tube). Centrifuge at 6000 x *g* (8000 rpm) for 1 min. Discard the flow-through and collection tube.
6. Place the QIAamp Mini spin column in a new 2 ml collection tube and add 500 µl Buffer AW1. Centrifuge at 6000 x *g* (8000 rpm) for 1 min. Discard the flow-through and collection tube.
7. Place the QIAamp Mini spin column in a new 2 ml collection tube and add 500 µl Buffer AW2. Centrifuge at full speed (20,000 x *g*; 14,000 rpm) for 3 min. Discard the flow-through and collection tube.
8. **Recommended**: Place the QIAamp Mini spin column in a new 2 ml collection tube (not provided) and centrifuge at full speed for 1 min. This eliminates the chance of possible Buffer AW2 carryover.
9. Place the QIAamp Mini spin column in a new 1.5 ml microcentrifuge tube (not provided), add 200 µl Buffer AE or distilled water and incubate at room temperature for 1 min. Centrifuge at 6000 x *g* (8000 rpm) for 1 min to elute the DNA.
10. **Optional**: Repeat step 10 for increased DNA yield with a further 200 µl Buffer AE or distilled water.

Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.