Quick-Start Protocol March 2016

QIAamp® UltraSens® Virus Kit

The QIAamp UltraSens Virus Kit (cat. nos. 53704 and 53706) can be stored at room temperature (15–25°C) for up to 12 months if not otherwise stated on label.

Further information

- *QIAamp UltraSens Virus Handbook*: **www.qiagen.com/HB-0336**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- The use of a shaker–incubator is strongly recommended for use in the incubation steps in the protocol.
- All centrifugation steps should be carried out at room temperature (15–25°C).
- Equilibrate samples to room temperature.
- Prepare Buffers AB, AW1 and AW2 and Carrier RNA according to the instructions in the handbook. Mix Buffer AB thoroughly with ethanol.
- Equilibrate Buffer AR to 60°C in a water bath.

1. Pipet 1 ml plasma or serum into a 2 ml microcentrifuge tube (not provided). Adjust small sample volumes (<1 ml) to 1 ml using phosphate-buffered saline. At least 200 µl of plasma or serum should be processed.
2. Pipet 0.8 ml Buffer AC on top of the sample in the microcentrifuge tube. Pipet 5.6 µl carrier RNA solution into the tube lid.

   Note: Do not mix Buffer AC and carrier RNA together before adding them to the sample, as this can lead to variable RNA recovery.
3. Close the lid and mix thoroughly by first inverting the microcentrifuge tube 3 times and then by vortexing for 10 s.
4. Incubate at room temperature (15–25°C) for 10 min (maximum 15 min).

5. Centrifuge the sample at 1200 x *g* for 3 min.
6. Completely remove and discard the supernatant.
7. Add 300 µl Buffer AR warmed to 60°C and 20 µl proteinase K.
8. Vortex thoroughly until the pellet is completely resuspended. It is important that pellets are completely resuspended to ensure maximum recovery.
9. Incubate for 10 min at 40°C in a mixer–incubator with the mixing speed set to maximum. Do not exceed this incubation time.
10. Briefly centrifuge to remove drops from the inside of the tube lid.
11. Add 300 µl Buffer AB, mix thoroughly by vortexing and centrifuge briefly.
12. Carefully apply the 700 µl lysate to a QIAamp spin column (inserted into a 2 ml collection tube) without wetting the rim. Close the cap and centrifuge at 3000–5000 x *g* for 1 min.
13. Place the QIAamp spin column into a new 2 ml collection tube (provided), and discard the tube containing the filtrate. Carefully open the QIAamp spin column and add 500 µl Buffer AW1. Centrifuge at 6000 x *g* for 1 min.
14. Place the QIAamp spin column into a new 2 ml collection tube (provided) and discard the tube containing the filtrate. Carefully open the QIAamp spin column and add 500 µl Buffer AW2. Centrifuge at full speed (20,000 x *g*) for 3 min.
15. Place the QIAamp spin column into a new 1.5 ml microcentrifuge tube (not provided). Discard the collection tube containing the filtrate. Carefully open the QIAamp spin column. To elute viral nucleic acids, carefully apply 30 µl Buffer AVE to the membrane of the spin column. Centrifuge at 6000 x *g* for 1 min.
16. Repeat the elution by adding a further 30 µl Buffer AVE and centrifuging at 6000 x *g* for 1min. A two-step elution ensures maximum recovery of viral nucleic acids.

Scan QR code for handbook.

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