

QIAamp[®] DNA Microbiome Kit

Components of the QIAamp DNA Microbiome Kit are shipped on dry ice. Upon receipt, Buffer AHL and Benzonase[®] should be stored at -30 to -15°C and QIAamp UCP Mini columns should be stored at 2 – 8°C . All other buffers (except Buffer AHL) can be stored at room temperature (15 – 25°C).

Further information

- QIAamp DNA Microbiome Handbook: www.qiagen.com/HB-1792
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Notes before starting

- This protocol is for the depletion of host DNA.
 - Remove all components from the refrigerator or freezer.
 - Preheat different heating blocks/water baths to 37°C , 56°C and 70°C .
 - Add ethanol (96–100%) to Buffers AW1 and AW2 as indicated on the bottles.
 - If a precipitate has formed in Buffer ATL or Buffer APL2, heat at 56°C to dissolve.
 - Before use, add 100 μl Reagent DX to 15 ml Buffer ATL and mix well. After preparation, the mixture is stable for 6 months at room temperature (15 – 25°C).
 - For swab samples, swirl swab in 1 ml transport media or PBS for at least 20 s.
1. Add 500 μl Buffer AHL to 1 ml of sample in a 2 ml tube (not provided) and incubate for 30 min at room temperature with end-over-end rotation.
 2. Centrifuge the tube at $10,000 \times g$ for 10 min and remove the supernatant.
 3. Add 190 μl of Buffer RDD and 2.5 μl of Benzonase. Mix well and incubate at 37°C for 30 min at 600 rpm in a heating block or water bath.
 4. Add 20 μl Proteinase K and incubate at 56°C for 30 min at 600 rpm in a heating block or water bath. Then, briefly spin the tube at slow speed.



5. Add 200 μ l Buffer ATL (containing Reagent DX). Mix well and transfer into Pathogen Lysis Tube L. Place Pathogen Lysis Tube L into a FastPrep[®]24 instrument, applying a velocity of 6.5 m/s twice for 45 s with a 5 min intermission, while samples are stored on ice. For alternative lysis options, refer to the kit handbook. **Optional:** After lysis, heat to 95°C for 5 min.
6. Centrifuge Pathogen Lysis Tube L at 10,000 x g for 1 min and transfer the supernatant into a fresh microcentrifuge tube. Add 40 μ l Proteinase K, vortex to mix and incubate at 56°C for 30 min at 600 rpm in a heating block or water bath.
7. Add 200 μ l Buffer APL2. Mix by pulse-vortexing for 30 s. Incubate at 70°C for 10 min and briefly spin the tube.
8. Add 200 μ l ethanol to the lysate and mix by pulse-vortexing for 15–30 s. Apply up to 700 μ l of this mixture to the QIAamp UCP Mini spin column without wetting the rim. Close the cap and centrifuge at 6,000 x g for 1 min. Discard the flow-through* and put the column back into the same collection tube. Repeat with any remaining ethanol-lysate mixture.
9. Transfer the QIAamp UCP Mini spin column to a fresh collection tube. Open the cap and add 500 μ l Buffer AW1 without wetting the rim. Close the cap and centrifuge at 6000 x g for 1 min. Place the QIAamp UCP Mini spin column into a fresh 2 ml collection tube and discard the filtrate.*
10. Open the QIAamp UCP Mini spin column and add 500 μ l Buffer AW2[†] without wetting the rim. Centrifuge at 20,000 x g for 3 min.
11. Place the QIAamp UCP Mini spin column into a fresh 2 ml collection tube and discard the filtrate. Centrifuge at 20,000 x g for 1 min.
12. Place the QIAamp UCP Mini spin column into a fresh 1.5 ml tube and apply 50 μ l Buffer AVE[†] directly onto the center of the membrane. Close the lid and incubate at room temperature for 5 min. Centrifuge at 6000 x g for 1 min to elute the DNA.

* Flow-through containing Buffer APL2 or Buffer AW1 is not compatible with bleach.

[†] Buffers AW2 and AVE contain sodium azide as a preservative.



Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. Trademarks: QIAGEN[®], Sample to Insight[®], QIAamp[®] (QIAGEN Group); Benzonase[®] (Merck KGaA, Germany); FastPrep[®] (MP Biomedicals, LLC), 1101331 03/2016 HB-1792-003 © 2016 QIAGEN, all rights reserved.