June 2024

Quick-Start Protocol

QIAamp® Power Pro Pretreatment of Respiratory Samples

This protocol is recommended for pretreatment of viscous respiratory samples prior to DNA purification with the QIAamp DNA Power Pro Kits. To preserve the bacterial content of the sample, pretreatment may not compromise bacterial cells or impact subsequent DNA isolation with the QIAamp DNA Power Pro Kits.

Further information

- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Procedure

1. Perform one of the following steps to liquefy the sample. Ensure that you keep incubation times to the minimum required.
    a. Add 1 volume of Sputasol (Oxoid) solution to 1 volume of sample and shake well. Place in a 37°C water bath and incubate with periodic shaking until the sample is completely liquefied.

b. Mix 1 volume of sample with 1 volume of NAC buffer (10 g nacetylcysteine per liter of 0.9% NaCl solution).

Note: If the sample is very viscous or solid, (e.g. when working with respiratory samples), try to carefully disrupt the sample by pipetting up and down. Incubate for 30 min at room temperature (15–25°C) with constant shaking.

Note: For easier pipetting, it may be necessary to cut-off the end of the pipet tip. If the sample is solid, the incubation time needs to be increased to completely liquefy the sample.

c. Mix 1 volume of sample with 1 volume of 1 x PBS. Add freshly prepared DTT to a final concentration of 0.15% (w/v). Incubate the sample at 37°C until the sample is completely liquefied.

2. Centrifuge the liquefied sample to pellet bacterial cells, remove the supernatant, and resuspend pellet in 1 mL PBS.
3. Proceed with the first step of the appropriate QIAamp DNA Power Pro Kit protocol.

Document Revision History

Date	Changes
06/2024	Initial release

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

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