

**User-developed  
protocol**

## User-Developed Protocol:

### Acetyl Cysteine (NALC) treatment of viscous samples

This procedure has been developed by customers, and is for use with the QIAamp® DNA Mini Kit. **It has not been thoroughly tested and optimized by QIAGEN.**

Please be sure to read the QIAGEN® *QIAamp DNA Mini Kit and QIAamp DNA Blood Mini Kit Handbook* and the detailed Tissue Protocol carefully before beginning this procedure.

### Procedure

1. **Add 1 volume NALC solution to 1 volume sample. Incubate while agitating gently, until the sample has attained the desired fluidity.**  
100 ml NALC solution contains:
  - 50 ml 2.94% sodium citrate
  - 50 ml 4% sodium hydroxide
  - 500 mg N-acetyl-L-cysteine (Sigma, product no. A7250)
2. **Treat the samples by either of the following methods:**
  - A. Pellet cells and wash with PBS, or
  - B. Concentrate samples by using centrifugal micro-concentrators.
3. **Continue with step 1 of the Tissue Protocol in the *QIAamp DNA Mini Kit and QIAamp DNA Blood Mini Kit Handbook*.**

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