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DNA extraction using the ammonium acetate technique V.2

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ABSTRACT

A simple protocol to extract DNA

ATTACHMENTS

[DNA extraction using the ammonium acetate technique.docx](#)

BEFORE START INSTRUCTIONS

If blood is preserved in ethanol, it has to be dried before starting.

- 1 Add 50 µl of blood, 200 µl of a DNA extraction solution (which includes tris-HCL 30 mM pH 8, EDTA 10 mM, and 0.4% SDS), and 3 µl proteinase K.

50 µL Blood

200 µL DNA extraction solution

3 µL Proteinase K

2 Vortex and overnight at 56°.

56 °C

3 Also incubate 70°C around three hours shaking frequently.

70 °C

03:00:00 Incubation

4 Add 200 µl AcNH4 4 M. Vortex and incubate 30 minutes. Shake every 10 minutes.

200 µL AcNH4 4 M

00:30:00 Vortex and incubation

00:10:00 Shake

5 Centrifuge 15 minutes at 13000 rpm.

00:15:00 Centrifugation

6 Move the supernatant to new tubes.

7 Add 800 µl of cold EtOH 100%.

800 µL EtOH

8 Centrifuge 15 minutes at 13000 rpm.

00:15:00 Centrifugation

9 Remove the supernatant.

10 Wash the pellet with 800 µl of EtOH 70%.

800 µL EtOH 70%

11 Centrifuge 5 minutes at 13000 rpm.

00:05:00 Centrifugation

12 Remove the supernatant and dry.

13 Add 200 µl TE Buffer and leave 2-3 hours in the oven at 37°C

200 µL TE Buffer

03:00:00 Oven

37 °C