DNA extraction using the ammonium acetate technique

Juan Carlos Illera

Abstract

A simple protocol to extract DNA

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Before start

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

Protocol

Step 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.

Step 2.

- Vortex and overnight at 56° Also incubate 70°C around three hours shaking frequently.

Step 3.

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

Step 4.

- Centrifuge 15 minutes at 13000 rpm.

Step 5.

- Move the supernatant to new tubes.

Step 6.

- Add 800 µl of cold EtOH 100%.

Step 7.

- Centrifuge 15 minutes at 13000 rpm.

Step 8.

- Remove the supernatant.

Step 9.

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

Step 10.

- Centrifuge 5 minutes at 13000 rpm.

Step 11.

- Remove the supernatant and dry.

Step 12.

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