# DNA extraction using the ammonium acetate technique Version 2

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### **Abstract**

A simple protocol to extract DNA

Citation: Juan Carlos Illera DNA extraction using the ammonium acetate technique. protocols.io

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#### **Before start**

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

### **Protocol**

#### Step 1.

Add 50  $\mu$ l of blood, 200  $\mu$ l of a DNA extraction solution (which includes tris-HCL 30 mM ph 8, EDTA 10 mM, and 0,4% SDS), and 3  $\mu$ l proteinase K.

**■** AMOUNT

50 μl Additional info: Blood

AMOUNT

200 µl Additional info: DNA extraction solution

**■** AMOUNT

3 µl Additional info: Proteinase K

Step 2.

Vortex and overnight at 56°.

**■ TEMPERATURE** 

56 °C Additional info:

Step 3.

Also incubate 70°C around three hours shaking frequently.

**▮** TEMPERATURE

70 °C Additional info:

Step 4.

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

#### **AMOUNT**

200 µl Additional info: AcNH4 4 M

# Step 5.

Centrifuge 15 minutes at 13000 rpm.

# Step 6.

Move the supernatant to new tubes.

## Step 7.

Add 800  $\mu$ l of cold EtOH 100%.

# **■** AMOUNT

800 μl Additional info: EtOH

### Step 8.

Centrifuge 15 minutes at 13000 rpm.

#### Step 9.

Remove the supernatant.

# Step 10.

Wash the pellet with 800 µl of EtOH 70%.

# **■** AMOUNT

800 µl Additional info: EtOH 70%

#### **Step 11.**

Centrifuge 5 minutes at 13000 rpm.

#### Step 12.

Remove the supernatant and dry.

#### **Step 13.**

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

**■** AMOUNT

200 μl Additional info: TE Buffer

↓ TEMPERATURE
37 °C Additional info: