

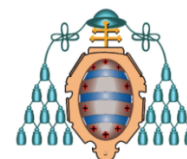
Nov 07, 2017

Version 2

DNA extraction using the ammonium acetate technique V.2

DOI

dx.doi.org/10.17504/protocols.io.knycvfw



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DOI: <https://dx.doi.org/10.17504/protocols.io.knycvfw>

Protocol Citation: Juan Carlos Illera 2017. DNA extraction using the ammonium acetate technique. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.knycvfw>

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Protocol status: Working

Created: November 07, 2017

Last Modified: March 28, 2018

Protocol Integer ID: 8632

Keywords: dna extraction, ammonium acetate technique, extraction, dna

Abstract

A simple protocol to extract DNA

Attachments



DNA extraction using...

13KB


Troubleshooting

Before start

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 μ l TE Buffer and leave 2-3 hours in the oven at 37°C

 200 μ L TE Buffer

 03:00:00 Oven

 37 °C