Extraction method F (CR)

Faezah Mohd Salleh, Jazmin Ramos-Madrigal, Fernando Penaloza, Shanlin Liu, Mikkel-Holger S Sinding, Riddhi P Patel, Renata Martins, Dorina Lenz, Jorns Fickel, Christian Roos, Mohd Shahir Shamsir, Mohammad Shahfiz Azman, Burton K Lim, Stephen J Rossiter, Andreas Wilting, M Thomas P Gilbert

Abstract

Gen-IALFirst All-tissue DNA extraction kit -This protocol provides an efficient DNA extraction and purification of historic sample (tissue material)

Citation: Faezah Mohd Salleh, Jazmin Ramos-Madrigal, Fernando Penaloza, Shanlin Liu, Mikkel-Holger S Sinding, Riddhi P Patel, Renata Martins, Dorina Lenz, Jorns Fickel, Christian Roos, Mohd Shahir Shamsir, Mohammad Shahfiz Azman, Burton K Lim, Stephen J Rossiter, Andreas Wilting, M Thomas P Gilbert Extraction method F (CR). **protocols.io**

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

Published: 05 Jul 2017

Before start

Ancient DNA lab

Materials

- Proteinase K by Contributed by users
- ✓ Isopropanol by Contributed by users
- Ethanol by Contributed by users

Protocol

Extraction

Step 1.

Cut tissue (25-50 mg) into small pieces.

Extraction

Step 2.

Add 500 µl Lyse 1.



500 µl Additional info: Lyse 1

Extraction

Step 3.

Add 50 µl Lyse 2.

■ AMOUNT
50 μl Additional info: Lyse 2
Extraction
Step 4.
Add 10 μl Proteinase K.
AMOUNT 10 μl Additional info: Proteinase K
Extraction
Step 5.
Incubate in a thermomixer at 65°C for 12 hours.
Extraction
Step 6.
Centrifuge for 10 min at 13000rpm.
Extraction
Step 7. Discard supernatant without disturbing the pellet.
Extraction
Step 8. Add 375 μl Lyse 3
■ AMOUNT 375 µl Additional info: Lyse 3
Extraction
Step 9. Vortex for 20 sec.
Extraction
Step 10. Leave it for 5 min in the freezer (-20°C)
Extraction
Step 11. Centrifuge 20 min at 13000rpm.
Extraction
Step 12. Transfer the supernatant in a new tube.
Extraction
Step 13.
Add 640 μl isopropanol.

Extraction

640 μ l Additional info: Isopropanol

■ AMOUNT

Step 14.

Mix by inversion.

Extraction

Step 15.

Centrifuge for 15 min at 13000 rpm.

Extraction

Step 16.

Remove the supernatant (don't touch the pellet).

Extraction

Step 17.

Add 150 µl ethanol.



150 μl Additional info: Ethanol

Extraction

Step 18.

Centrifuge for 5 min at 13000 rpm.

Extraction

Step 19.

Remove the ethanol with a pipette (don't touch the pellet).

Extraction

Step 20.

Dry the pellet (37°C open lid max 5 min).

Extraction

Step 21.

Re-suspend the pellet in 100 µl Buffer AE.



100 µl Additional info: Buffee AE

Extraction

Step 22.

Measure DNA concentration on Nanodrop (Thermo Fischer Scientific, Darmstadt, DE).