# **Extraction Method E (PRP)**

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 fresh sample (tissue material)

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#### **Before start**

Clean

## **Materials**

- ✓ Isopropanol by Contributed by users.
- Proteinease K by Contributed by users
- Ethanol by Contributed by users

## **Protocol**

# Extraction

#### Step 1.

Cut tissue into small pieces.

# Extraction

#### Step 2.

Add 500 µl Lyse 1, 50 µl Lyse 2 and 10 µl Proteinase K.



50 μl Additional info: Lyse 2

**■** AMOUNT

10 μl Additional info: Proteinase K

## Extraction

## Step 3.

Incubation in a shaker at 65°C for 12 hours.

#### Extraction

## Step 4.

Centrifuge for 10 min. 13000rpm.

#### Extraction

#### Step 5.

Discard supernatant without disturbing the pellet.

#### Extraction

#### Step 6.

Add 375 µl Lyse 3



**■** AMOUNT

375 µl Additional info: Lyse 3

#### Extraction

## Step 7.

Vortex for 20 sec.

#### Extraction

# Step 8.

Leave it for 5 min in the freezer (-20°C).

#### Extraction

#### Step 9.

Centrifuge 20 min. 13000rpm.

# Extraction

## Step 10.

Transfer the supernatant to a new tube.

# Extraction

## **Step 11.**

Add 640 µl Isopropanol.



640 µl Additional info: Isopropanol

#### Extraction

## Step 12.

Mix by inversion.

## Extraction

#### **Step 13.**

Centrifuge for 15 min 13000 rpm.

## Extraction

# **Step 14.**

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

## Extraction

## Step 15.

Add 150 µl Ethanol.

**■** AMOUNT

150 µl Additional info: Ethanol

#### Extraction

#### **Step 16.**

Centrifuge for 5 min 13000 rpm.

## Extraction

## **Step 17.**

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

#### Extraction

## **Step 18.**

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

## Extraction

## Step 19.

Re-suspend the pellet in 100 µl ddH2O water.

**■** AMOUNT

100 µl Additional info: ddH2O

## Extraction

# Step 20.

Prior to library construction, analyze small aliquots of each extract on Nanodrop (Thermo Fischer Scientific, Darmstadt, DE) for estimation of DNA concentration.

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