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 We use this protocol and it's working

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🌐 DNA extraction from whatman filter papers

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ABSTRACT

This protocols is for RNA extraction from Whatman filter paper.

MATERIALS

STEP MATERIALS

☒ Chelex 100 Merck MilliporeSigma (Sigma-Aldrich) Catalog #C7901-100G

☒ DNase/RNase free distilled water Thermo Fisher Scientific Catalog #10977023

Lyse RBC

- 1 Filter paper disc containing blood cut and placed into 1.5 mL EP tubes.
- 2 Add 1 mL RNase-free water and vortex to mix.
DNase/RNase free distilled water **Thermo Fisher Scientific Catalog #10977023**
- 3 Incubate at 25 °C Room temperature for 00:15:00 to lyse RBC.

Precipitate the DNA and separate phases

- 4 Centrifuge at 20,000 × g for 00:05:00 , discard the supernatant with a micropipettor.
go to step #2 until the DNA precipitate forms a white or pink gel-like pellet at the bottom of the tube.
- 5 Resuspend the pellet in 150 µL 10% Chelex-100 solution , vortex the sample briefly for 00:00:30 .
Chelex 100 **Merck MilliporeSigma (Sigma-Aldrich) Catalog #C7901-100G**
- 6 Incubate the sample at 100 °C for 00:10:00 .

- 7 Centrifuge for 00:05:00 at 20,000 × g.
- 8 Carefully transfer the supernatant to a clean 1.5 mL EP tube with a micropipettor. Proceed to downstream applications, or store the DNA at -20 °C .

Determine the DNA yield

- 9 Measure absorbance at 230nm, 260nm, and 280nm, Calculate the A260/A280 and A230/A260 ratio.