

Jul 05, 2017

Extraction method A (FMS and CR)

 [GigaScience](#)

 In 1 collection

DOI

dx.doi.org/10.17504/protocols.io.im7cc9n

Faezah Mohd Salleh¹, Jazmin Ramos-Madrigal¹, Fernando Penalzoza¹, Shanlin Liu¹, Mikkel-Holger S Sinding¹, Riddhi P Patel¹, Renata Martins¹, Dorina Lenz¹, Jorns Fickel¹, Christian Roos¹, Mohd Shahir Shamsir¹, Mohammad Shahfiz Azman¹, Burton K Lim¹, Stephen J Rossiter¹, Andreas Wilting¹, M Thomas P Gilbert¹

¹Natural History Museum of Denmark, Copenhagen, Denmark

GigaScience Press



Faezah Mohd Salleh

OPEN  ACCESS



DOI: dx.doi.org/10.17504/protocols.io.im7cc9n

External link: <https://doi.org/10.1093/gigascience/gix053>

Protocol Citation: Faezah Mohd Salleh, Jazmin Ramos-Madrigal, Fernando Penalzoza, 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 2017. Extraction method A (FMS and CR). **protocols.io** <https://dx.doi.org/10.17504/protocols.io.im7cc9n>

Manuscript citation:

Salleh FM, Ramos-Madrigal J, Peñaloza F, Liu S, Mikkel-Holger SS, Riddhi PP, Martins R, Lenz D, Fickel J, Roos C, Shamsir MS, Azman MS, Burton KL, Stephen JR, Wilting A, Gilbert MTP, An expanded mammal mitogenome dataset from Southeast Asia. GigaScience 6(8). doi: [10.1093/gigascience/gix053](https://doi.org/10.1093/gigascience/gix053)

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working



Created: June 26, 2017

Last Modified: March 27, 2018

Protocol Integer ID: 6559

Abstract

This protocol allows for adequate DNA extraction from fresh tissue samples.

Materials

MATERIALS

⊗ Buffer AW1 **Qiagen Catalog #19081**

⊗ Buffer AW2 **Qiagen Catalog #19072**

⊗ Buffer AE **Qiagen Catalog #19077**

⊗ Buffer ATL **Qiagen Catalog #19076**


⊗ Ethanol



Before start

Separate PCR-free facility



Extraction

- 1 Cut tissue into small pieces.
- 2 Digestion of ca. 25 mg sample with Buffer ATL (Qiagen, Hilden, DE) and Proteinase K overnight at 56 °C.
 25 mg Sample

Note
Incubation was performed on a thermomixer with 800 rpm
- 3 After pelleting remaining material, remove supernatant and added to Buffer AL and ethanol.
- 4 Transfer the solution to DNeasy Mini spin column (Qiagen, Hilden, DE) and centrifuge at 8000 rpm.
- 5 DNA purification following manufacturer's protocol with Buffer AW1 and Buffer AW2 (Qiagen, Hilden, DE).
- 6 Prior to elution, incubate DNA in the membrane with elution Buffer AE for 5 min at room temperature.
 00:05:00 Incubation at RT
- 7 Elution proceeds by centrifugation at 8000 rpm for 1 min.
 00:01:00 Centrifugation
- 8 Measure DNA concentration on Nanodrop (Thermo Fischer Scientific, Darmstadt, DE).