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DNA extraction of Nephila clavipes using the Wizard Genomic DNA Purification kit (Promega) V.2

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ABSTRACT

Protocol used to extract whole genome DNA from Nephila clavipes (Araneae: Araneidae) specimens.

ATTACHMENTS

[Protocol for DNA extraction of Nephila clavipes.docx](#)

- 1 Macerate 1-8 legs (around 50 mg of tissue) using liquid nitrogen.
- 2 Add 600 µL of Nuclei Lysis solution and homogenize.
600 µL Nuclei Lysis solution
- 3 Take the microtubes to the dry bath at 65°C for one hour.
01:00:00 Dry bath
65 °C
- 4 Add 200 µL of Protein Precipitation solution and homogenize.
200 µL Protein Precipitation solution
- 5 Centrifuge the microtubes at 13000 rpm for 10 minutes.
00:10:00 Centrifugation
- 6 Transfer the supernatant to a new microtube and add 600 µL of Isopropyl alcohol.
600 µL Isopropyl alcohol
- 7 Keep the tubes at -20°C for at least one hour.
-20 °C
01:00:00 Keeping tubes at -20°C
- 8 Centrifuge the microtubes at 13000 rpm for 6 minutes at 4°C.
4 °C
00:06:00 Centrifugation
- 9 Discard the supernatant and add 600 µL of absolut etanol.

600 µL Etanol

10 Homogenize gently for one minute.

00:01:00 Homogenizing

11 Centrifugate the microtubes at 13000 rpm for 3 minutes at 4°C.

4 °C

00:03:00 Centrifugation

12 Discard the supernatant.

13 Let the samples dry.

14 Rehydrate with 50 µL of Tris-EDTA buffer.

50 µL Tris-EDTA buffer