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

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Abstract

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

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Protocol

Step 1.
Macerate 1-8 legs (around 50 mg of tissue) using liquid nitrogen.

Step 2.

Add 600 µL of Nuclei Lysis solution and homogenize.

AMOUNT
600 µl Additional info: Nuclei Lysis solution

Step 3.
Take the microtubes to the dry bath at 65°C for one hour.

TEMPERATURE
65 °C Additional info:

Step 4.

Add 200 µL of Protein Precipitation solution and homogeníze.

AMOUNT
200 µl Additional info: Protein Precipitation solution

Step 5.
Centrifugate the microtubes at 13000 rpm for 10 minutes.

Step 6.

Transfer the supernatant to a new microtube and add 600 µL of Isopropyl alcohol.

AMOUNT
600 µl Additional info: Isopropyl alcohol

Step 7.

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Keep the tubes at -20°C for at least one hour.

TEMPERATURE
-20 °C Additional info:

Step 8.
Centrifugate the microtubes at 13000 rpm for 6 minutes at 4°C.

TEMPERATURE
4 °C Additional info:

Step 9.
Discard the supernatant and add 600 µL of absolut etanol.

AMOUNT
600 µl Additional info: Etanol

Step 10.
Homogenize gently for one minute.

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

TEMPERATURE
4 °C Additional info:

Step 12.
Discard the supernatant.

Step 13.
Let the samples dry.

Step 14.

Rehydrate with 50 µL of Tris-EDTA buffer.

AMOUNT
50 µl Additional info: Tris-EDTA buffer

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