

Nov 07, 2017 Version 2

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

DOI

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



Luiz Filipe Bartoleti¹, Luiz Filipe Bartoleti¹

¹University of Campinas



Luiz Filipe Bartoleti

OPEN  ACCESS



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

Protocol Citation: Luiz Filipe Bartoleti, Luiz Filipe Bartoleti 2017. DNA extraction of *Nephila clavipes* using the Wizard Genomic DNA Purification kit (Promega) . **protocols.io** <https://dx.doi.org/10.17504/protocols.io.knxcvfn>

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: November 07, 2017

Last Modified: March 05, 2018

Protocol Integer ID: 8631

Keywords: dna extraction, spider, kit, araneae, *Nephila clavipes*

Abstract















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

Attachments



Protocol for DNA ext...


13KB

- 1 Macerate 1-8 legs (around 50 mg of tissue) using liquid nitrogen.
- 2 Add 600 μ L of Nuclei Lysis solution and homogenize.
 600 μ L 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 μ L of Protein Precipitation solution and homogenize.
 200 μ L 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 μ L of Isopropyl alcohol.
 600 μ L 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 μ L of absolut etanol.
 600 μ L Etanol
- 10 Homogenize gently for one minute.
 00:01:00 Homogenizing
- 11 Centrifuge 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 μ L of Tris-EDTA buffer.

 50 μ L Tris-EDTA buffer