



Jun 14, 2022

DNA extraction (Zymo kit)

DOI

dx.doi.org/10.17504/protocols.io.kxygxz11ov8j/v1

Tsu-Chun Hung¹

¹KMU



Tsu-Chun Hung

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.kxygxz11ov8j/v1>

Protocol Citation: Tsu-Chun Hung 2022. DNA extraction (Zymo kit). **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.kxygxz11ov8j/v1>

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: In development

We are still developing and optimizing this protocol

Created: May 24, 2022



Last Modified: September 13, 2023

Protocol Integer ID: 63108

Keywords: dna extraction, zymo kit, extraction, dna, kit

Abstract





DNA extraction (Zymo kit)

Troubleshooting




Sample Collection


2m 30s

- 1 Add  200 μL of **1mm beads** to 1.5ml enppendorf tube 30s
- 2 Add  200 μL of **0.5mm beads** to 1.5ml enppendorf tube 30s
- 3 Add  600 μL of **lysis solution** to 1.5ml enppendorf tube 30s
- 4 Collect  9-10 μg of **sample** to 1.5ml enppendorf tube 1m

Sample crush



- 5 Put 1.5ml enppendorf tube in the mixmill for sample crush; at condition: 30 rpm/s, for 4mins  00:04:00 4m

Centrifugation

- 6 Put 1.5ml enppendorf tube in centrifuge for centrifugation, at this condition:  17.0 x g, 25°C, 00:03:00 3m

DNA purification


37m 30s

- 7 Add  600 μL of **DNA binding buffer** to 1st well of 96 deep well plate 30s
- 7.1 Add  25 μL of **magnetic beads** to 1st well of 96 deep well plate 30s

Note

Shake the bottle and pipetting before using magnetic beads



- 7.2 Add  200 μL of **sample (lysate)** from 15ml centrifuge microtube to 1st well of 96 deep well plate

30s

Note


Usually add last

- 8 Add  500 μL of **Wash 1** to 2nd well of 96 deep well plate

30s

- 9 Add  500 μL of **Wash 2** to 3rd well of 96 deep well plate

30s

- 10 Add  500 μL of **Wash 2** to 4th well of 96 deep well plate

30s

- 11 Add  100 μL of **water** to 5th well of 96 deep well plate

30s

- 12 Put in the automated DNA extraction machine

34m