

VERSION 4

APR 19, 2023

OPEN ACCESS

dx.doi.org/10.17504/protocol s.io.n2bvj6mdnlk5/v4

Protocol Citation: Tsu-Chun Hung, Yin-Tse Huang 2023. DNA extraction (BOMB).

protocols.io

https://dx.doi.org/10.17504/p rotocols.io.n2bvj6mdnlk5/v4Ve rsion created by Yin-Tse Huang

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 We use this protocol and it's working

Created: Apr 06, 2023

Last Modified: Apr 19, 2023

PROTOCOL integer ID:

80088

ONA extraction (BOMB) V.4

Tsu-Chun Hung¹, Yin-Tse Huang¹

¹KMU



Yin-Tse Huang

ABSTRACT

DNA extraction (BOMB)

MATERIALS

1. Lysis master mix (870 uL/sample)

A	В
TE buffer	225 uL
Lysis buffer	375 uL
Ammonium acetate	270 uL

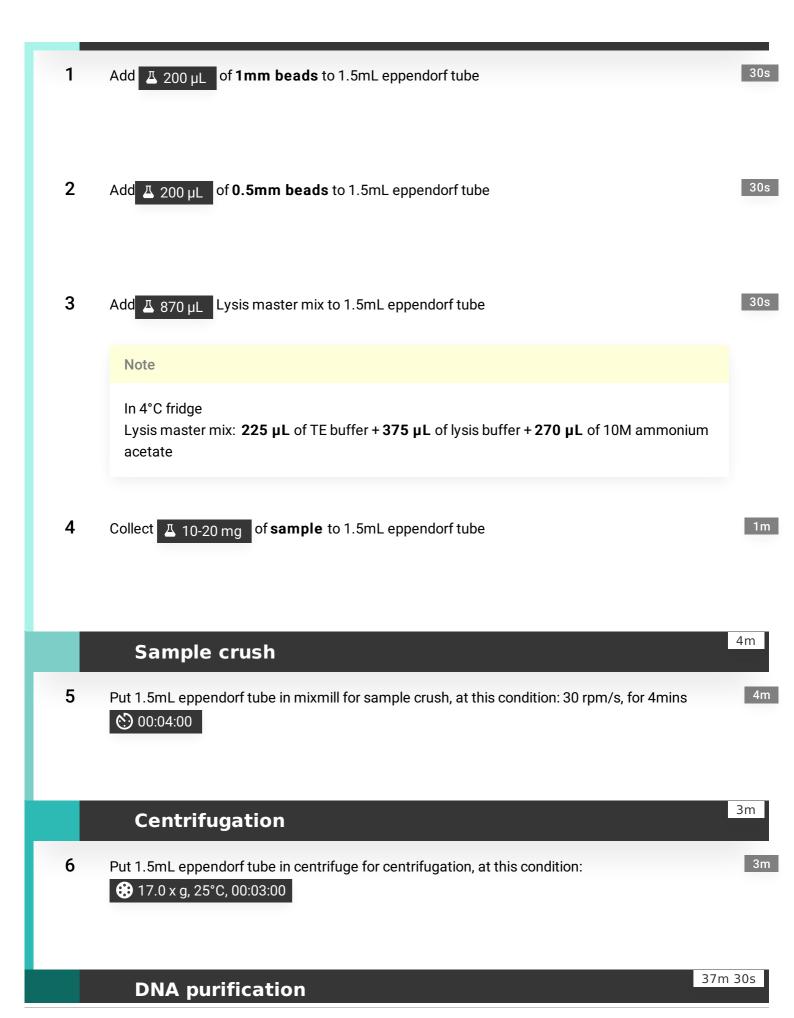
2. TE buffer

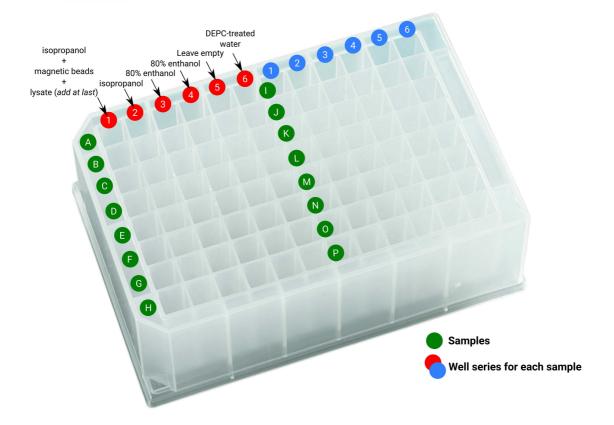
A	В
Tris HCI pH8.0	10mM
EDTA	1mM

3. Lysis buffer

A	В
GITC	4M
Tris HCI pH8.0	50mM
SDS	0.5g
EDTA	20mM

3m





7.1 Add $\underline{\text{A}}$ 100 μL of magnetic beads (10 mg/ml) to the 1st well of 96 deep well plate

30s

Note

Vortex the bottle and pipetting before using magnetic beads; re-do vortex after adding to 3 samples to prevent set down of magnetic beads

7.2 Add \underline{A} 200-300 μL of the **sample (lysate)** from the 1.5mL centrifuged tube to the 1st well of 96 deep well plate

30s

Note

Pipetting **as much lysate as you can**, as long as it's free of any cell debris (no solids in your tip)

ADD at LAST

8 Add Add 400 µL of isopropanol to the 2nd well of 96 deep well plate

30s

9 Add $\underline{\mathbb{Z}}$ 300 μL of 80% enthanol to the 3rd well of 96 deep well plate

30s

Add \perp 300 μ L of 80% enthanol to the 4th well of 96 deep well plate

30s

- Add \underline{A} 300 μ L of **DDW** to the 5th well of 96 deep well plate
- 12 Add Δ 100 μL of **DEPC-treated water** to the 6th well of 96 deep well plate

- 30s
- Put the prepared 96 deep well plate in the automated DNA extraction machine and select the BOMB protocol
- 34m
- After the extraction is done, collect Δ 50-100 μ L of the **eluted sample** as the DNA template for downstream experiments