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DNA extraction (BOMB)

Forked from [DNA extraction \(BOMB\)](#)Tsu-Chun Hung¹, Yin-Tse Huang¹¹KMU

1 Works for me

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dx.doi.org/10.17504/protocols.io.261gen7ryg47/v1

Yin-Tse Huang

ABSTRACT

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PROTOCOL CITATION

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FORK NOTE

FORK FROM

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Sample Collection

3m

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  **225 µL** of **TE buffer** to 2ml enppendorf tube 30s

TE buffer is in 4°C fridge

4 Add  **375 µL** of **lysis buffer** to 2ml enppendorf tube 30s


Lysis buffer is in 4°C fridge

5 Add  **267 µL** of **10M ammonium acetate** to 2ml enppendorf tube


10M ammonium acetate is in 4°C fridge

6 Collect  **10-20 mg** of **sample** to 2ml enppendorf tube 1m

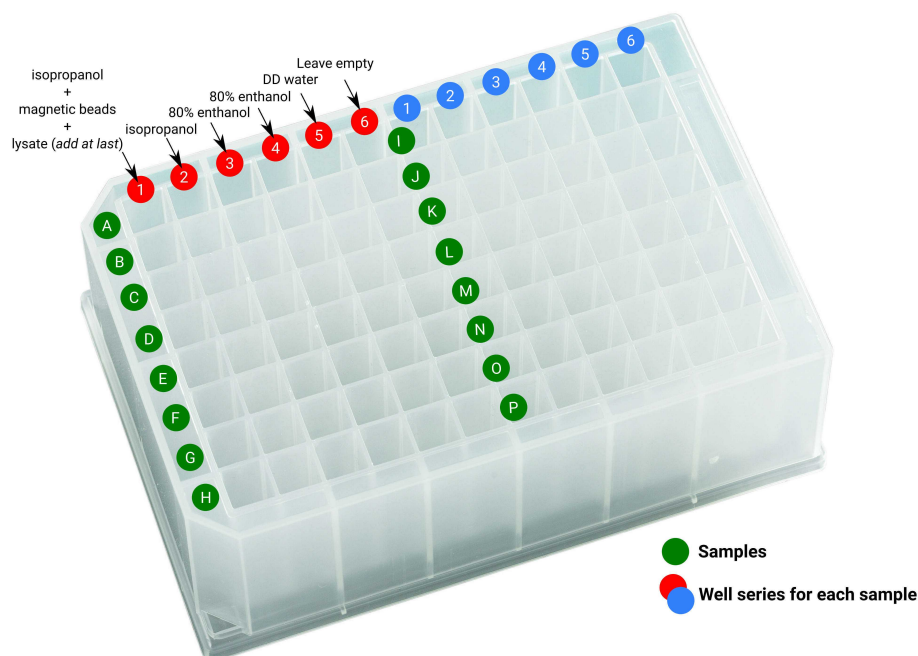
Sample crush 4m


7 Put 2ml enppendorf tube in mixmill for sample crush, at this condition: 30 rpm/s, for 4mins 4m
 **00:04:00**

Centrifugation 3m


8 Put 2ml enppendorf tube in centrifuge for centrifugation, at this condition: 3m
 **17.0 x g, 25°C, 00:03:00**

- 9 Add  **350 μ L** of **isopropanol** to the 1st well of 96 well plate








- 9.1 Add  **125 μ L** of **magnetic beads** (10 mg/ml) to the 1st well of 96 deep well plate 30s

Shake the bottle and pipetting before using magnetic beads

- 9.2 Add  **200 μ L** of the **sample (lysate)** from the 2ml centrifuged tube to the 1st well of 96 deep well plate 30s

USUALLY ADD at LAST

- 10 Add  **400 µL** of **isopropanol** to the 2nd well of 96 deep well plate 30s
- 11 Add  **300 µL** of **80% ethanol** to the 3rd well of 96 deep well plate 30s
- 12 Add  **300 µL** of **80% ethanol** to the 4th well of 96 deep well plate 30s
- 13 Add  **100 µL** of **DD water** to the 5th well of 96 deep well plate 30s
- 14 Put the prepared 96 deep well plate in the automated DNA extraction machine 34m
- 15 After the extraction is done, collect  **100 µL** of the **eluted sample** as the DNA template for downstream experiments