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DNA extraction (BOMB)

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ABSTRACT

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Sample Collection 3m

1 Add **200 µL** of **1mm beads** to 2ml enppendorf tube 30s

2 Add **200 µL** of **0.5mm beads** to 2ml 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 eppendorf tube in mixmill for sample crush, at this condition: 30 rpm/s, for 4mins 4m
00:04:00

Centrifugation 3m

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

DNA purification 37m 30s

9 Add **350 µL** of **isopropanol** to the 1st well of 96 well plate 30s

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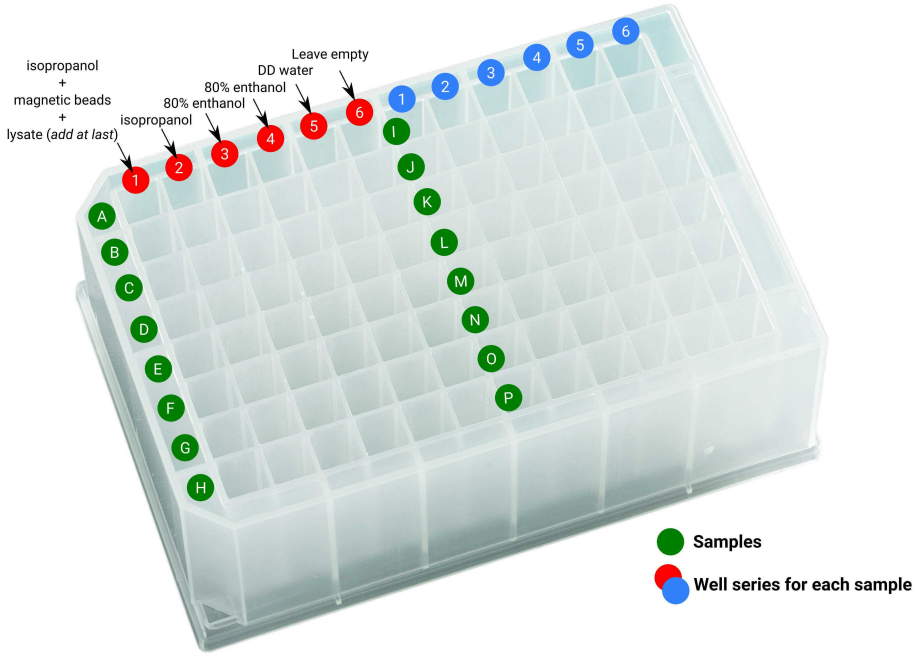

9.1 Add **125 µL** of **magnetic beads** (10 mg/ml) to the 1st well of 96 deep well plate 30s

Shake the bottle and pipetting before using magnetic beads

9.2 Add **200 µL** 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

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11 Add **300 µL** of **80% enthanol** to the 3rd well of 96 deep well plate 30s

12 Add **300 µL** of **80% enthanol** 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

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