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DNA extraction (BOMB)

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1 Works for me



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ABSTRACT

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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 1.5ml enppendorf tube 30s

TE buffer is in 4°C fridge

- 4 Add  **375 µL** of **lysis buffer** to 1.5ml enppendorf tube 30s


Lysis buffer is in 4°C fridge

- 5 Add  **267 µL** of **10M ammonium acetate** to 1.5ml enppendorf tube


10M ammonium acetate is in 4°C fridge

- 6 Collect  **10-20 mg** of **sample** to 1.5ml enppendorf tube 1m


Sample crush 4m

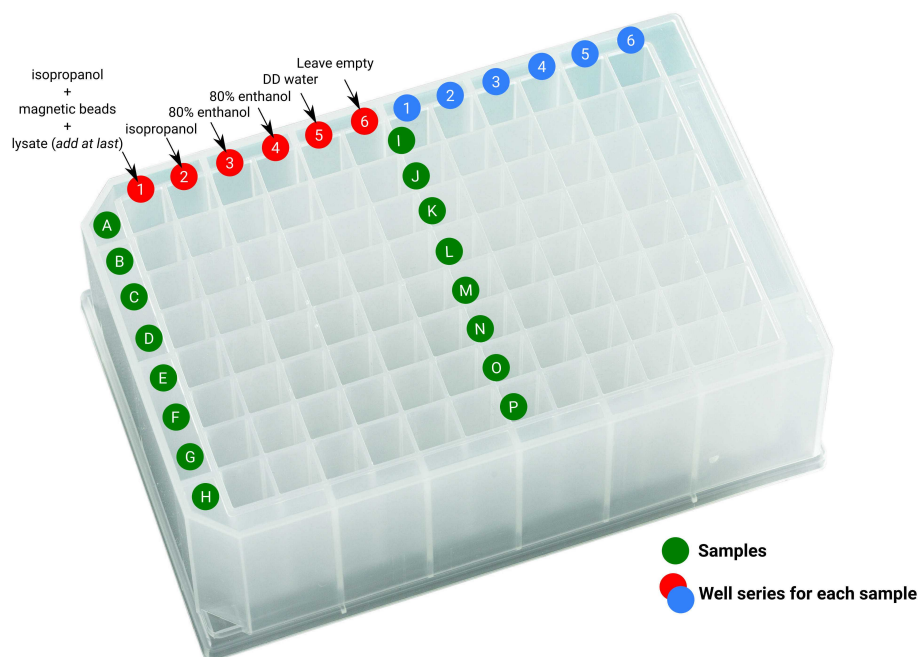
- 7 Put 1.5ml enppendorf tube in mixmill for sample crush, at this condition: 30 rpm/s, for 4mins^{4m}
 **00:04:00**

Centrifugation 3m

- 8 Put 1.5ml enppendorf 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







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

Shake the bottle and pipetting before using magnetic beads

- 9.2 Add 200 μ L of **sample (lysate)** from 15ml centrifuge microtube to the ^{30s} 1st well of 96 deep well plate

USUALLY ADD at LAST

- 10 Add 400 μ L 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 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