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# Acetone extraction of bacteria pellet for HPLC (2022 iGEM)

Forked from Acetone precipitation of proteins

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https://dx.doi.org/10.17504/protocols.io.eq2ly7peelx9/v1

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**Protocol status:** Working
**We use this protocol and it's working**

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## Abstract

Pre-cold acetone is generally used for protein precipitation. Here, we collect the supernatant for membrane lipid analysis.

1 Grow bacteria in in 150 mL 2xYT media overnight. Harvest by centrifugation at 4000 rpm for 10 minutes. Discard the supernatant. 16h

2 Add 4 times the volume -20°C acetone (3 mL in our case) to the extract, and vortex. 15m

3 Incubate sample at -20°C for 1 hour. 01:00:00 1h

4 Centrifuge at 13500 rpm for 10 minutes at 4°C. Collect the supernatant without touching the protein pellet. 10m

5 Store the acetone extracted sample at -80°C for long term use, or -20°C for short term use.