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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.