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## 09 Expression

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1 Works for me

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## ABSTRACT

Make the big batch of bacteria culture for protein expression.

## MATERIALS

NAME	CATALOG #	VENDOR
IPTG	GB-I2481C	P212121
LB medium	/	
Antibiotics	/	

- 1 Add 1L LB media and then add antibiotic to 100 µg/mL final concentration. Grow them up in 37°C shaking incubator. Grow until an OD 600 nm of 0.8 to 1.2 (roughly 3-4 hours).

1 L

37 °C

- 2 Induce the culture to express protein by adding 0.3 mM IPTG (isopropylthiogalactoside, MW 238 g/mol) or ~0.1 gram per 1.5 liter flask.

- 3 Put the liter flasks in 16°C shaking incubator for 16h.

16 °C

16:00:00

- 4 Centrifuge your bacteria in 500 mL bottles in the 4°C rotor at 4,000 RPM for 20 mins. Do this in batches until all your culture is spun down saving the cell pastes each time. Freeze the cell paste at -80°C.

500 µl

4 °C

00:20:00



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