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## O Protein Expression

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

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### Abstract

The protein expression is a process about synthesizing and modification for proteins in living organisms with using several laboratory techniques and devices. This technique is generally used for obtaining protein from the competent cell that is used for carrying plasmids that possess the protein that we want to express.

#### Protein expression involves two general steps that;

• Gene expression; which is continuum that converting DNA to the mRNA that can be translate into protein.

• Protein manufacturing; which is translation process.

## Materials

STEP MATERIALS

X LB Broth Amresco Catalog #J106-2KG

#### **Protocol materials**

🔀 LB Broth Amresco Catalog #J106-2KG

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Transform BL21 cells and plate them on Amp (Kan).

1

Afer overnight incubation, take colonies and transfer into 6 ml LB with 6  $\mu$ l Amp. Let them grow for 3-5 hours.

When incubation process is done, transfer it to 1 L ZYM-5052 Medium with 1  $\mu l$  Amp.

3

Centrifuge at 6000 rpm for 10 minutes.

4

Equipment	
SORVALL LYNX 4000	NAME
Centrifuge	TYPE
Thermo Scientific	BRAND
75006580	SKU
👏 00:10:00 Centrifuge 🛿 🖁 15 °C	

