



# IPTG Induced Plasmid Expression Protocol



# IPTG induced plasmid expression

## Introduction

Culture preparation with IPTG will indirectly induce the expression of the plasmids regulated by a T7 promoter.

## Materials

- › LB liquid media
- › Antibiotic for plasmid selection (1000x stock)
- › 100 mM IPTG (1000x stock)
- › o/N grown plasmid culture

## Procedure

### IPTG culture preparation

1. Prepare a sterile working space (e.g bunsen burner)
2. Add 15 mL of LB liquid media into a cell culture tube.
3. Add 15  $\mu$ L of antibiotic for the corresponding plasmid selection.
4. Add 15  $\mu$ L of 100 mM IPTG. The final concentration will be of 100  $\mu$ M.
5. Incubate for 3h, approximately. The culture has to be saturated to show an optic density (OD 600 nM) around 1 ng/ $\mu$ L.

## Bibliography

1. (N.d.-h). Retrieved October 19, 2021, from ThermoFisher.com website:  
<https://www.thermofisher.com/order/catalog/product/R1171#/R1171>