

Measuring Blue chromoprotein

Introduction

Get started by giving your protocol a name and editing this introduction.

Materials

- › Spectrophotometer
- › IPTG
- › LB
- › cuvettes/microplate

Procedure

Note! When you do this for the first time, make 4 parallel samples to find the correct IPTG concentration.

1. Start a 2ml (LB) o/n culture of blue chromoprotein producing bacteria
2. In the morning, refresh the o/n culture by pipetting 100µl of the culture into 50ml of fresh LB (erlenmeyer bottle)
3. 4 hours after the refreshement, add prewarmed (+37°C) IPTG to create three different final concentrations of IPTG:
 - 0,05mM
 - 0,5mM
 - 1,0mM
4. Start measuring the absorption of the blue chromoprotein with 588nm every 30 minutes.
(continue measurements for at least 4 hours)
5. With each measurement, determine the amount of bacterial cells by also measuring the same sample at 850nm