

Cultivation for Expression of recombinant proteins

- This protocol is based on the technical bulletin from [Promega](#) concerning protein expression under control of the T7 promotor
- Grow overnight culture of your cells with the plasmid containing the genes for the recombinant protein in [LB medium](#) containing specific antibiotic. Grow at 37 °C
- Dilute overnight culture 1:50 in [LB medium](#) containing antibiotic and grow cells at 37 °C
- When the culture reaches an OD₆₀₀ of 0.6-0.8, shift the temperature to 20 °C
- Induce protein expression using the T7 promotor by adding rhamnose to a final concentration of 0.1 %. When the ptac promotor is used, standard induction concentrations are 0,5 mM or 1 mM.
- Grow the culture at 20 °C overnight
- Harvest cells by centrifugation at 4 °C
- Discard supernatant and freeze pellet at -20 °C

From: iGEM Bielefeld-CeBiTec