## Cultivation *Escherichia coli for RNA purification*

**The following protocol was used to cultivate *E. coli* for the RNA purification for tRNA quantification and for the bio brick characterisation.**

1. Pick single colony from agar plate and inoculate a glass test tube containing 5 mL 2YT medium. Add antibiotic if necessary (see tables below).
2. Incubate the culture at 37 °C and 130 rpm.
3. Take samples depending on the experiment.
4. Pellet the cells via centrifugation and store the pellets at -70 °C.

*Table 1: Strains and required antibiotic.*

| Strain | Antibiotic |
|---|---|
| *E. coli* BL21DE3 | - |
| *E. coli* BL21DE3 pRARE | Chloramphenicol |
| *E. coli* Rosetta | Chloramphenicol |
| *E. coli* MG1655 | - |
| *E. coli* MG1655 J61002 | Ampicillin |

*Table 2: Applied antibiotics and their concentrations.*

| Antibiotic | Stock concentration [mg/mL] | Working concentration [µg/mL] |
|---|---|---|
| Chloramphenicol | 20 | 20 |
| Tetracyclin | 10 | 10 |
| Kanamycin | 50 | 50 |
| Ampicillin | 100 | 100 |