

## Transformation of *E. coli* with plasmids

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- thaw competent cells **on ice**. Every tube contains 200  $\mu\text{l}$ , use  $\sim 100 \mu\text{l}$  per transformation. (pre-chill the new tube when splitting bacteria)
- add DNA to bacteria.
- incubate for **10 min on ice**
- heat shock at **42°C for 2 min**
- cold shock **on ice for 10 min**
- add 500  $\mu\text{l}$  fresh LB
- incubate on roller drum for **1 h at 37°C**
- spread 100  $\mu\text{l}$  of bacteria on plate with appropriate antibiotic

### *Optional:*

- spin down remaining bacteria (30 sec, 16000 g)
  - remove most of supernatant (leave  $\sim 100 \mu\text{l}$ )
  - resuspend bacteria by vortexing
  - spread remaining bacteria on new plate (with antibiotic)
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- incubate plates over night at 37°C.