

## Electro competent Transformation

### Aim of the Experiment

This protocol can be used to transform electrocompetent Cells with DNA from various sources such as Ligation, Gibson Assembly or pure plasmid.

### Materials

- Electro competent cells (various strains, prepared according to protocol)
- SOC Media, see corresponding protocol
- LB-Plates with corresponding antibiotics
- Electroporation cuvettes ()
- Electroporator ()
- DNA (various source)

### Procedure

All steps must be done on ice!

1. Thaw cells on ice for 10 min.
  2. Add 1  $\mu$ l of DNA.
  3. Wait 1 min.
  4. Transfer the complete amount into a prechilled electroporation cuvette.
  5. Electroporate and put back on ice immediatly.
  6. Add 950  $\mu$ l SOC Media.
  7. Incubate at 37 °C and 250 rpm for 1 h.
  8. Spin down for 30 seconds, discard 900  $\mu$ l and transfer the cells onto the plate by resuspension in the remaining media.
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9. Plate with plateing beads by shaking for at least 10 s.
10. Incubate plates overnight at 37 °C.