

Ultra-Fast Transformation of Housemade TOP10 Z-Competent Cells

Materials

- Z-Competent cells made from TOP10 One-Shot *E. coli* (1 tube has 100ul, use 50ul per transformation)
- Ice
- DNA
- LB-Carb plates

Protocol

1. Pre-warm plates to 37C
2. Thaw cells on ice, aliquot 50ul/transformation
3. Add DNA to cells (1 - 5ul), gently tap to mix
 - a. Official protocol says no more than 5% of the total cell volume, but 5ul in 50ul cells is fine
4. Incubate on ice for 5 - 10 minutes
5. Plate entire volume of cells onto pre-warmed LB-Carb plates*
6. Incubate overnight at 37C

*This protocol is only for transformation of Amp/Carb-resistant plasmids. For other antibiotics, an outgrowth phase is recommended. See Zymo Research's "*E. coli* Transformation Kit & Buffer Set" instructions for more information.