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Direct Plating Transformation Protocol

Constructed from (Pope & Kent, 1996).

1. A few hours prior to the procedure (or overnight if convenient), label required plates for transformation and place them in the 37°C incubator in 1239 ERB.
2. Place 2 µL of DNA into a PCR tube on ice. Add 50 µL of comp cells with a chilled pipette and pipette up and down to mix.
3. Keep cells on ice for 1-5 min.
4. Add 50 µL of chilled, sterile DI or ultrapure water to cells and pipette up and down, then remove 50 µL and plate. This is a 1:1 dilution plating.
5. Repeat with another 50 µL of chilled water, this will be a 1:3 dilution plating.
6. Immediately place cells in the 37°C incubator in 1239 ERB. Leave plates overnight, colonies should be observed the next day.
7. Proceed to the PCR Screening Protocol.

Pope, B., & Kent, H. M. (1996). High efficiency 5 min transformation of Escherichia coli. *Nucleic acids research*, *24*(3), 536-7. Retrieved from http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=145660&tool=pmcentrez&rendertype=abstract.