



University of Southampton iGEM 2009 Protocol:
Elution and Transformation of Biobrick DNA:

1. Extract the biobrick part by pipetting 15µl nuclease-free water into the storage well to suspend the DNA.
2. Add 2µl of the DNA solution to DHα5 competent cells and incubate on ice for 30 minutes.
3. Heat-shock the cells by placing them in a thermostatically-controlled water bath for 45 seconds **only** at 42°C.
4. Place the heat-shocked cells on ice for 2 minutes.
5. Add 1ml SOC growth media and incubate using a shaking incubator at 37 °C for 1 hour.
6. Centrifuge the cells at 4,000 x *g* for 15 minutes and then re-suspend in 115 µL nuclease-free water.
7. Plate the cells in two dilutions onto LB agar plates (Amp resistant – see LB agar plate protocol). First, plate 100 µL of cells then prepare a second plate with 10 µL of cells diluted with 90 µL of SOC.
8. Incubate the LB agar plates at 37 °C overnight. **Important!** Do not grow the plates for longer as colonies will multiply and could become indistinct.
9. The plates can be stored at 4 °C until a Plasmid Prep can be performed.