

Protocol 1-10: Electro Transformation of Recombinant DNA

General Protocol

- 1) Pipette competent cells suspension into the tubes, 100 μ l each tube (If the competent cells are taken from -70°C , perform following steps immediately after thawing).
- 2) Add 10 μ l of recombinant plasmid into the tube which is the tube with competent cells.
- 3) Mix the solutions gently, keep on ice for 20-30 minutes.
- 4) Heat shock by transferring the tubes to a water bath of 42°C for 1 to 2 minutes.
- 5) Immediately return the tube to the ice bath. Keep on ice for 2 minutes.
- 6) Add 0.9 ml of LB (with no antibiotics added) into each tube. Incubate the tubes for 45 minutes to 1 hour at 37°C to allow the cells to express their antibiotic gene product.
- 7) Spread about 200 μ l of the resulting solutions (do dilution if necessary) on LB plates (with corresponding antibiotic added). After complete absorption of liquid LB, upside down the plates and incubate the plates at 37°C overnight.

Tips

- 1) Never spread the transformation solution until you have assured that the glass stick is cooled down