Transformation by Electroporation

1. Take one tube of competent cells (50 μl) and thaw on ice.
2. Turn on electroporator (BTX 830). Select correct setting (program 3):

   Mode: LV
   Voltage: 500V
   Pulse Length: 8 msec
   Number of Pulses: 1X.
3. Chill a cuvette (1 mm gap) on ice for at least 1 min.
4. Add 1~4 μl of ligation reaction. Mix by tapping gently with finger. Do not mix by pipetting.
5. Add cells and ligation mix to the cuvette.
6. Place cuvette in the Electroporation Safe Stand, after cleaning water or condensation outside of the cuvette with Kimwipe. Make sure the Electroporation Safe Stand is properly connected to the electroporator.
7. Press the Start button to activate electroporation.
8. After electroporation, immediately add 400 ml of warm SOC (37°C) to the cuvette.
9. Incubate for 45 min at 37°C on a shaker. At the meantime, pre-warm and air-dry a LB plate containing proper antibiotic
10. Plate 100 μl of cells on the LB plate.