

High-throughput transformation

This protocol allows for high throughput transformation of Golden Gate assemblies previously done with a Labcyte Echo liquid dispenser in 96-well PCR plates.

- Start with the Golden Gate products in the PCR plate
- Add 20uL of competent cells to each
- Incubate in a thermal cycler with the following cycle:

Step	Temperature	Duration
1	4°C	30min
2	42°C	45sec
3	4°C	5min

Method 1

- Transfer to a deep-well plate
- Add 600µL of LB to each well
- Seal the plate and incubate at 37°C for 2h with shaking at 300 rpm
- Plate on selective media

Incubate an omnitray with LB agar and antibiotics to dry at 37°C for an hour.

For plating, use a multichannel pipette to gently pipette 5uL of samples onto the omnitray.

Leave the drops to dry under a laminar flow hood.

- Incubate the plate at 37°C overnight.

Method 2

- Add 200uL of LB to each well
- Seal the plate and incubate at 37°C for 2h with shaking
- Plate on selective media

Incubate an omnitray with LB agar and antibiotics to dry at 37°C for an hour.

For plating, use a multichannel pipette to gently pipette 5uL of samples onto the omnitray.

Leave the drops to dry under a laminar flow hood.

- Incubate the plate at 37°C overnight.