Transformation Protocol

New England Biolabs

Abstract

Quick Ligation products may be transformed by many different methods. The following protocol is recommended by New England Biolabs.

Citation: New England Biolabs Transformation Protocol. **protocols.io**
dx.doi.org/10.17504/protocols.io.cpxvpm
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Protocol

Step 1.
Thaw competent cells on ice

Step 2.
Chill approximately 5 ng (2 µl) of the ligation mixture in a 1.5 ml microcentrifuge tube.

AMOUNT
2 µl Additional info:

Step 3.
Add 50 µl of competent cells to the DNA.

AMOUNT
50 µl Additional info:

Step 4.
Mix gently by pipetting up and down or flicking the tube 4–5 times to mix the cells and DNA. Do not vortex.

Step 5.
Place the mixture on ice for 30 minutes. Do not mix.

DURATION
00:30:00

Step 6.
Heat shock at 42°C for 30 seconds. Do not mix.

DURATION
00:00:30

ANNOTATIONS
New England Biolabs 27 Jan 2015
For the duration and temperature of the heat shock step, please follow the recommendations provided by the competent cells' manufacturer.

Step 7.
Add 950 µl of room temperature media to the tube.

AMOUNT
950 µl Additional info:

ANNOTATIONS

New England Biolabs 27 Jan 2015

For the media to be used during the recovery period, please follow the recommendations provided by the competent cells' manufacturer.

Step 8.

Place tube at 37°C for 60 minutes. Shake vigorously (250 rpm) or rotate.

DURATION

01:00:00

Step 9.

Warm selection plates to 37°C.

Step 10.

Spread 50–100 µl of the cells and ligation mixture onto the plates.

Step 11.

Incubate overnight at 37°C

DURATION

15:00:00