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# Transformation

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Works for me

[dx.doi.org/10.17504/protocols.io.bnykmfuw](https://dx.doi.org/10.17504/protocols.io.bnykmfuw)

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MATERIALS TEXT

DH5α chemically competent  
LB medium

SAFETY WARNINGS

Please wear gloves for the experiment.

- 1 Put DH5α chemically competent bacterium on ice for melting about 5 min.
- 2 Add 50 μl DH5α chemically competent bacterium into 1.5 ml tubes, mix with ligation product or digested product thoroughly, incubate the bacterium on ice for 30 min.
- 3 Heat shock the bacterium for exactly 45 s at 42 °C water bath.
- 4 Place back on ice for 2 min.

- 5 Add 500  $\mu$ l LB medium to each tube, shake the tubes at 37 °C, 200 rpm for 45 min.
- 6 Centrifuge the bacterium at 4200 r for 3 min.
- 7 Discard 300  $\mu$ l supernatant and resuspend the sediment.
- 8 Plate 100  $\mu$ l for a reaction product.
- 9 Incubate plates upside down overnight at 37°C.