E. coli Heat Shock

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Abstract

Citation: Alex Rajewski E. coli Heat Shock. **protocols.io**
dx.doi.org/10.17504/protocols.io.nwfdfbn
Published: 19 Mar 2018

Protocol

Set up
Step 1.

Thaw competent cells on ice.

Set up
Step 2.

Warm SOC media to room temperature.

Set up
Step 3.

Heat a dry block to 42ºC

Set up
Step 4.

Label a 1.5mL eppendorf tube for each transformation reaction with the construct name and place it on ice.

Heat Shock
Step 5.

Add 2µL of plasmid to the labeled eppendorf tube on ice.

AMOUNT
2 µl Additional info: plasmid

Heat Shock
Step 6.

Add 45µL of thawed competent cells to the tube with the plasmid and gently swirl with the pipet tip to mix.

AMOUNT

45 µl Additional info: competent cells

Heat Shock

Step 7.

Incubate the mixture on ice for 30 minutes.

Heat Shock

Step 8.

Place the mixture in the dry block at 42ºC for 30 seconds

Heat Shock

Step 9.

Incubate the mixture on ice for 2 minutes.

Grow Up

Step 10.

Add 250µL of SOC to the mixture and shake for 1 hour at 37ºC and 250rpm

Grow Up

Step 11.

Spin for 30 seconds at 6000rpm to pellet

GOTO

Concentrate -> go to step #1

Grow Up

Step 12.