DH5α bacteria transformation protocol

Yoan Coudert¹

¹Ecole Normale Supérieure de Lyon

CoudertLab

Yoan Coudert

Ecole Normale Supérieure de Lyon

DOI: dx.doi.org/10.17504/protocols.io.bghijt4e

Protocol Citation: Yoan Coudert 2020. DH5α bacteria transformation protocol. protocols.io https://dx.doi.org/10.17504/protocols.io.bghijt4e

License: This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: May 17, 2020

Last Modified: May 17, 2020
Thaw bacteria on ice

Dispense 50μl in a microtube

Add 1 to 5 μl of DNA, and carefully flick the tube to mix cells and DNA

Place the mixture on ice for 10 minutes

Heat shock at 42°C for 30 seconds

Place on ice for 5 minutes

Pipette 450 μl of room temperature SOC (or LB) into the mixture

Incubate at 37°C for 1 hour. Shake vigorously at 250 rpm.
9 Warm selection plates at 37°C

10 Spread desired volume (150-350 μl) onto selection plate

11 Incubate overnight at 37°C

12 Store at 4°C after incubation of needed