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Version 2

## Electrotransformation of Clostridium species V.2

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**Protocol status:** In development

**We are still developing and optimizing this protocol**

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**Keywords:** electrotransformation of clostridium species, clostridium species, electrotransformation, brief protocol for electrotransformation

## Abstract

A brief protocol for electrotransformation of Clostridium species

## Troubleshooting



- 1 Inoculate  10  $\mu$ L BHI-supplemented broth with  100  $\mu$ L stock culture overnight.
- 2 Use the overnight culture to inoculate  100 mL BHI-supplemented broth to a starting density of OD 0.02.
- 3 Harvest early-exponential phase culture (OD 0.2 to 0.25) by centrifugation by 12,000g x  00:15:00 at  25 °C .
- 4 Wash once in  10 mL SML electroporation buffer .
- 5 Resuspend in  10 mL SMP electroporation buffer .
- 6 Take  400  $\mu$ L of aliquots and and mix with  500 ng of DNA, transfer to prechilled cuvettes with 0.2cm gap.
- 7 Incubate on ice for  00:10:00 .
- 8 Electroporate at the following parameters: 25 $\mu$ F, resistance 200 $\Omega$ , voltage 1.8kV.
- 9 Immediately transfer the cells into  10 mL of BHI broth and incubate for  03:00:00 .
- 10 Plate cells in dilutions on solid selective and non-selective BHI agar.