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Electrotransformation of Clostridium species

Version 2

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ABSTRACT

A brief protocol for electrotransformation of Clostridium species

- 1 Inoculate **10 µl BHI-supplemented broth** with **100 µl 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 µl** of aliquots 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: 25µF, resistance 200Ω, 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.



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