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## Electroporation protocol for *Vibrio natriegens*

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Josef Hoff<sup>1</sup>

<sup>1</sup>Phillips University



Josef Hoff

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**Protocol status:** Working

**We use this protocol and it's working**

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## Abstract

### Electroporation protocol

Weinstock paper:

Matthew T Weinstock, Eric D Heseck, Christopher M Wilson, Daniel G Gibson

*Vibrio natriegens* as a fast-growing host for molecular biology

Nature Methods volume 13, pages 849–851 (2016)

To prepare before:

recovery medium

(BHI + v2 salts (204 mM NaCl, 4.2 mM KCl, 23.14mM MgCl<sub>2</sub>), and 680 mM sucrose) sterile filtration

\* i have a box of aliquots in the freezer and pre heat them before use

-A vial of competent cells is retrieved from storage at -80 °C and allowed to thaw on ice.

-Plasmid DNA and electrocompetent cells are combined and gently mixed in a chilled 1.5-mL microcentrifuge tube.

-The cell-DNA suspension is transferred to a **chilled** electroporation cuvette with a 0.1-cm gap size.

-Cells are electroporated with 900V (in our Electroportor we cant set other parameters )

\* in the Weinstock paper they recommend depending on the strain 700-900V, 25 µF and 200 Ω

-Cells are **immediately** recovered in 500 µL **preheated** (50°C) recovery medium and transferred to a 1,5-mL tube.

\* we preheat the media to 50°C because the recovery media is cooled down by pipetting and up taking the chilled cells from the cold cuvettes

-The cells are recovered by incubating at 37 °C for 1.5h.

( also put the agar plates for preheating in the incubator at 37°C )

-The cells are centrifuged down for one mintute at 3000g. The supernant is then discanted.

- the pellet is resuspendet in the leftover oft he media and plated out on

**warm** agar plates containing appropriate antibiotic.

\* for Chloramphenicol 2µg/mL ; for Kanamycine 200µg/mL; for Carbenicillin 200µg/mL

-The plates are incubated for several hours or overnight at 37 °C for colonies to appear.

## Attachments



Electroporation prot...

48KB

