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Unsucessful atemps on transfromation of the lcthyosporean *Sphaeroforma artica*

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Protocol status: Working

We use this protocol and it's working

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Abstract

Testing electroporation on Spaheroforma artica with two different electroporators

Neon (invitrogen)

Lonza (nucleofector)

Materials

MATERIALS

⊗ 100ml Sorbitol solution [1M] **G-Biosciences Catalog #R038**

⊗ Glicerol **Merck Millipore (EMD Millipore) Catalog #4095**

⊗ Marine Broth 2216 **Becton Dickinson (BD) Catalog #279110**

⊗ Neon™ Transfection System 10 µL Kit **Thermo Fisher Scientific Catalog #MPK1096**

⊗ Lipofectamine 2000 **Life Technologies**

Sphaeroforma artica cells

- 1 Cells were seeded 24 hours prior transfection
- 2 200.000 cells per transfection condition were tested
- 3 Tested techniques and settings are as follows (with 1 to 5 micrograms of DNA endogenous promoter (actin) plus fluorescent reporter (venus or mCherry))

	<i>S.arctica</i>	Neon	1000-2500V, 10-40 ms, 1-3 pulses	n/a (not successful)
		Lipofectamina		n/a (not successful)
		LONZA®	16 preset codes P3/P4/P5 buffer	n/a (not successful)

- 4 cells were recovered immediately in MB medium and inspected for positive transfection by fluorescence after 24, 48 and up to 5 days.