



Sep 19, 2019

Unsucessful atempts on transfromation of the lcthyosporean *Sphaeroforma artica*

Elena Casacuberta¹, Cristina Aresté², Omayra Dudin¹, Elena Casacuberta¹

¹Institute of Evolutionary Biology, ²IIBB

1 Works for me dx.doi.org/10.17504/protocols.io.z6ef9be

Protist Research to Optimize Tools in Genetics (PROT-G) Multicellgenomelab view 1 more group



Elena Casacuberta
Institute of Evolutionary Biology



ABSTRACT

Testing electroporation on Spaheroforma artica with two different electroporators

Neon (invitrogen)

Lonza (nucleofector)

MATERIALS

NAME	CATALOG #	VENDOR
100ml Sorbitol solution [1M]	R038	G-Biosciences
Glicerol	4095	Merck Millipore
Marine Broth 2216	279110	BD Biosciences
Neon™ Transfection System 10 µL Kit	MPK1096	Thermo Fisher Scientific
Lipofectamine 2000		Life Technologies

MATERIALS TEXT

Sphaeroforma artica cells

- Cells were seeded 24 hours prior transfection
- 200.000 cells per transfecion condition were tested
- 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.artica</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)

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



This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited