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Version 2

Transfection by Electroporation in *Euplotes crassus* V.2

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Protocol status: Working

We use this protocol and it's working

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Troubleshooting



- 1 2×10⁴ *Euplotes crassus* cells were collected and resuspended in 0.3 M glucose solution (7% sea water and 93% of 0.3 M glucose solution).
- 2 Each round of transfection 250 µl of cells were used. 0.25 µg of Label IT® Plasmid Delivery Control Cy®3 (Mirus) were added alone or mixed with 2.5 µl of Lipofectamine® 2000 Transfection Reagent (Invitrogen) according to the supplier.
- 3 The sample was transferred to the 0.2 cm cuvette. Bio-Rad Gene Pulser was used. Conditions were set as follows: 0.2 kV, 25 µFD, 100 Ω. Time constant around 1.2.
- 4 More than 50% of cells were viable after electroporation (few cells fused together), then cells were resuspended in 3 ml of sea water.
- 5 The plasmid was visible in the cytoplasm immediately after the electroporation by fluorescent microscope.