Transient transfection of unicellular relative to animals Abeoforma whisleri with electroporation using Neon System

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Abstract

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Protocol

Centrifuge 5 mL of culture at 1000g 5min
Step 1.

young culture: 2-3 days passage

Resuspend cells in 5mL Sorbitol 1M
Step 2.

Count cells: between 1.000 and 10.000 cell
Step 3.

Mix cells with plasmid DNA (between 5 to 10 ug)
Step 4.

Neon system only allows 10 uL final volume in the tip-- adjust your cell and DNA dilutions accordingly for a final volume 10 uL

Electroporate cells with plasmid in Neon tip
Step 5.

Settings:

1200V

25ms

1pulse

Transfer cells into chamber with growth medium for recovery overnight
Step 6.

Medium of Abeoforma whisleri is Marine Broth, each well: 500 uL medium

Observe transformants on the next day after electroporation

Step 7.

Efficiency varies from 1 to 50 transformants per 10.000 cells