

# Euplotes crassus transfection using Lipofectamine 2000 with repetitive exposition (provisional)

Angela Piersanti

## Abstract

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## Protocol

### Step 1.

Collect  $2 \times 10^3$  cells by centrifugation (3000 rpm for 3 minutes).

### Step 2.

Wash the cells once with sea water and once with Opti-MEM medium (Thermo Fisher Scientific), and resuspend them in Opti-MEM medium.

### Step 3.

Load 0.5 ml of cells in a 24-well plate for transfection.

### Step 4.

Dilute 4  $\mu$ l of Lipofectamine 2000 Reagent (invitrogen) in 200  $\mu$ l of Opti-MEM medium.

### Step 5.

Dissolve 5  $\mu$ g of DNA (0.5-5  $\mu$ g/ $\mu$ l resuspended in H<sub>2</sub>O ) in 250  $\mu$ l of Opti-MEM medium.

### Step 6.

The transfection complexes are prepared as follows: add 50  $\mu$ l of diluted DNA to 50  $\mu$ l of diluted Lipofectamine 2000 Reagent (1:1 ratio) and incubate for 5 min at room temperature.

### Step 7.

Add 50  $\mu$ l of the transfection complexes drop-wise to the cells in the wells.

### Step 8.

Incubate the cells for 30 minutes at 37°C; then, 3 hours and half at 28°C.

**Step 9.**

After 4 hours of expositions, collect the cells from all the wells, wash them once with sea water and then resuspend them in 0.5 ml of sea water.

**Step 10.**

Repeat the exposition to the transfection complexes for 3 days to improve transfection efficiency.

**Step 11.**

Check the cells for transfection occurrence by different methods according to the different cases.