

Culturing Euplotes crassus to high densities using E.coli as the only food source

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Abstract

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Protocol

Step 1.

1 L culture of E. coli using L-broth was grown o/n (usually we dilute previous bacterial culture 1:100).

⊕ NOTES

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We have used strain HT115, but any strain of E. coli will likely do. Do not use antibiotics. Usually we store our bacterial culture at 4°C.

Step 2.

For 1 L Euplotes crassus culture 200 ml of bacterial culture were pelleted (4000 rcf for 10 minutes).

Step 3.

The pellet was washed once with ddH₂O (4000 rcf for 10 minutes).

Step 4.

Bacteria were added to the Euplotes crassus culture.

Step 5.

Euplotes crassus cells consumed all bacteria after about 3/4 days at 24°C with aeration system and achieved a density of 3000 cells/ml.