Long staining procedure of nuclei in Euplotes crassus using DAPI

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Abstract

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Protocol

Step 1.

Euplotes crassus cells were pelleted at 400 rcf for 3 minutes.

NOTES
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Both algae and bacteria are fluorescent. Better to have a completely starved Euplotes crassus culture.

Step 2.

The supernatant was removed as much as possible and 1 ml of 2% PFA in 1X PHEM or 4% PFA in 1X PBS was added to the cells and incubated for 10 minutes at room temperature.

Step 3.

Euplotes crassus cells were centrifuged at 400 rcf for 3 minutes.

Step 4.

The supernatant was removed as much as possible and cells were washed twice with 1X PBS (400 rcf for 3 minutes each time).

Step 5.

1 ml of TBSTEM - 3% BSA and 0.5 µl of DAPI (0.1 mg/ml) were added to the cells. Cells were incubated for 10 minutes at room temperature.

Step 6.

Euplotes crassus cells were centrifuged at 400 rcf for 3 minutes.

Step 7.

ANNOTATIONS
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This step was added by mistake.

Step 8.

50 µl of Prolong medium were added to the cells.

Step 9.

10 µl of Euplotes crassus cells were put on a slide and observed under the fluorescent microscope.