Leegaardiella ovalis Lynn & Montagnes, 1988

Fig 1

- IPk of IPZ
- EPk of EPZ
- Ma
- anterior
- IPk of IPZ
- EPk of EPZ
- Ma
- inner segment
- outer segment
- IPZ
- EPZ
- Ma
- EPk of EPZ
- clear area
- Ma
- K
- lateral
- 20 μm

2
- clear area
- EPZ
- K
- 20 μm

3
- EPZ
- clear area
- 10 μm

4
- EPZ
- clear area
- K
- 10 μm

5 n/a

6 n/a

7 n/a

Key features

Cell almost spherical; oral cavity large, encompasses entire anterior region and is typically seen as clear area in Lugol's fixed material; EPks of 2 unequal segments, differently ciliated, but inner one not seen in Lugol's; one macronucleus, spheroid, near the IPZ; one somatic kinety that describes a broad C-shape.

Measurements

Length: 20 (15-30) μm
Width: 20 (20-30) μm
No of EPk: 18 (18-19)
No of IPk: 4 (3-5)
Ma diameter: 5-7 μm
Biovolume: 7,000 μm^3

Movement

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Food

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Ecological data

Temperature: 12-18 ˚C
Salinity: 30-32 ‰
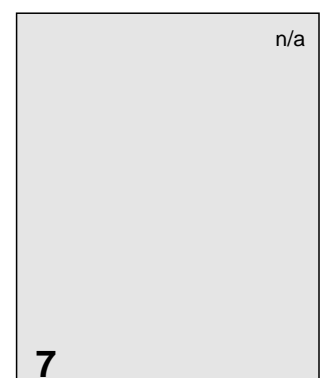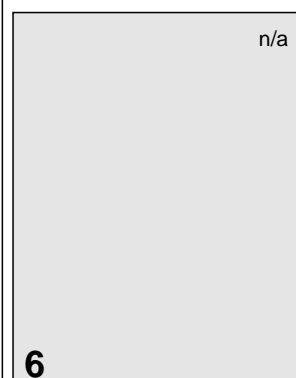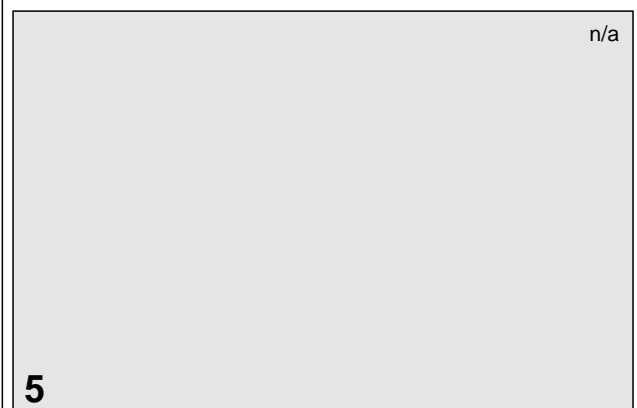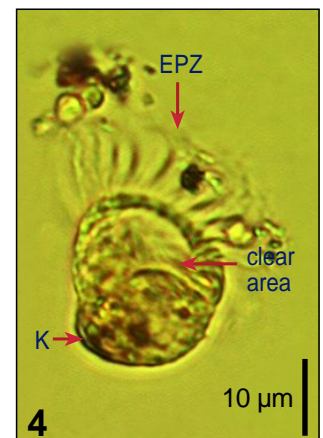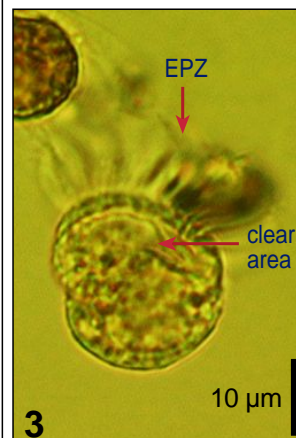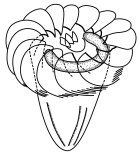
References

Lynn DH & Montagnes DJS 1988

Fig 1 Line drawings of protargol stained cells, showing kineties, oral structures and nucleus. **Fig 2-4** Lugol's fixed cells, showing the clear area (corresponds to oral cavity), the somatic kinety, and the EPZ: 2. Aboral view; 3. Lateral view; 4. Lateral view, cell slightly deformed.

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Species description
Body **subspherical**, 15-30 µm long and 20-30 µm in diameter (Fig 1-4).

Oral cavity large and concave, covers almost the entire apical end, it is typically seen as clear area in Lugol's fixed material (Fig 2-4); 18-19 EPks and 3-5 IPks; IPZ and EPZ distinctly separate; **EPks are differently ciliated and consist of 2 unequal segments:** the inner one is smaller and the outer one is larger (Fig 1,8), the inner one is not visible in Lugol's fixed cells.

One somatic kinety which describes a broad C-shape around the aboral pole (Fig 1,2,4), consists of dikinetids, one of the kinetosomes is ciliated.

One macronucleus, almost spherical, located near the IPZ (Fig 1).

Similar species
Lohmanniella oviformis (smaller oral cavity, 5 somatic kineties)*, Leegaardiella sol* (EPk differently ciliated, cell shape, 2 macronuclei, 4 somatic kineties, larger in size).

List of synonyms
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Taxonomical remarks
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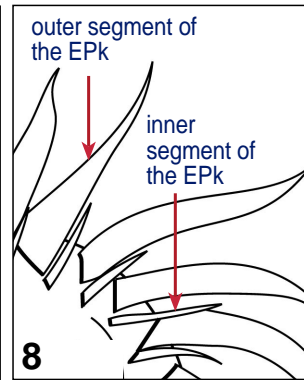**Fig 8** Detail of the oral ciliature, showing the inner and outer segments of the EPks and their different ciliation.

Notes