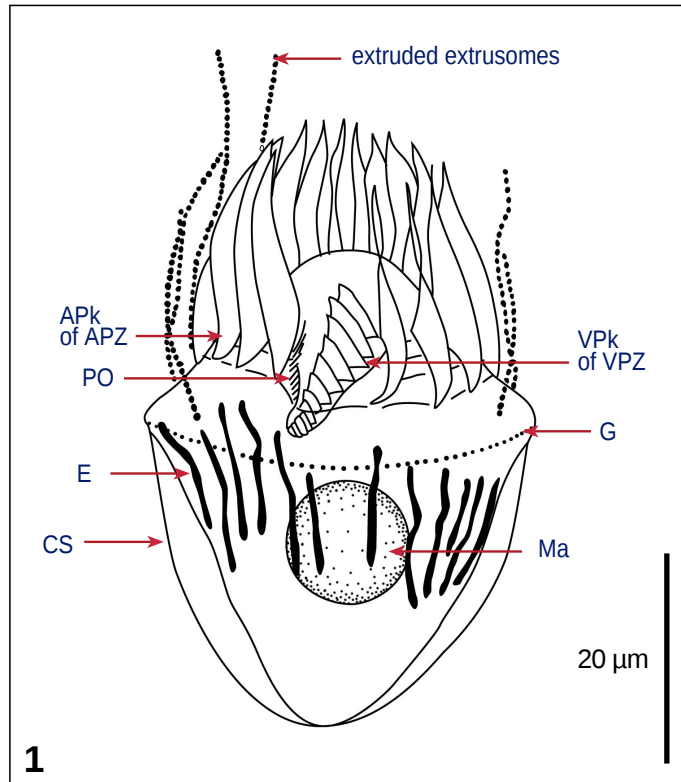


Strombidium acutum (Leegaard, 1915) Kahl, 1932



Key features

Body truncate to conical, posterior end pointed, anterior end forms dome, no peristomial collar; APZ distinctly separated from VPZ; girdle supraequatorial; one oval to spherical macronucleus; dark staining extrusomes

Measurements

Length:	40 (20-55) µm
Width:	40 (20-50) µm
No of APk:	15 (12-18)
No of VPk:	11 (9-22)
Ma diameter:	9 (8-15) µm
Biovolume:	35,000 µm ³

Movement

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Food

Mixotrophic, chloroplast-retention; autotrophic flagellates

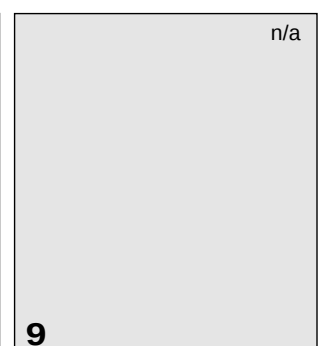
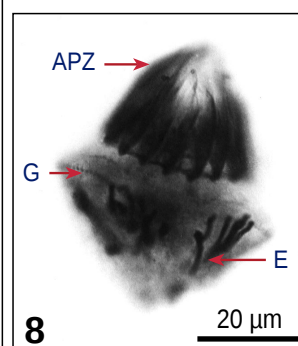
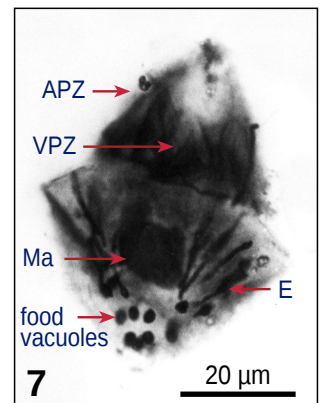
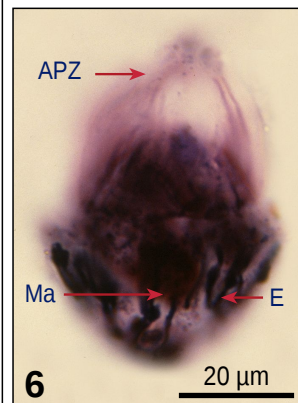
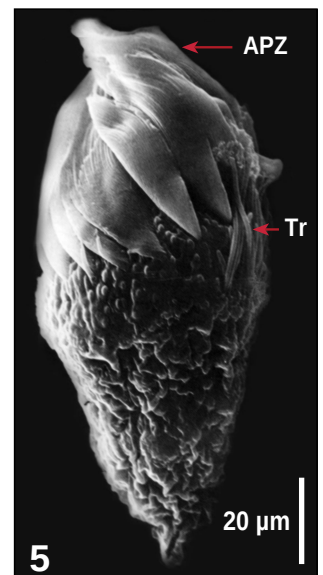
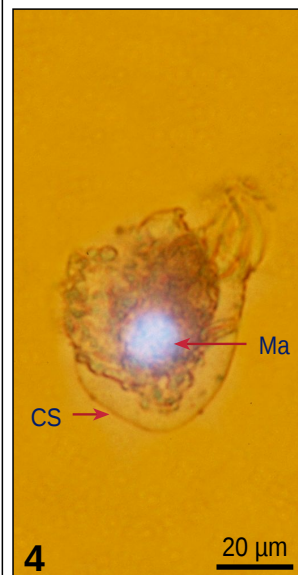
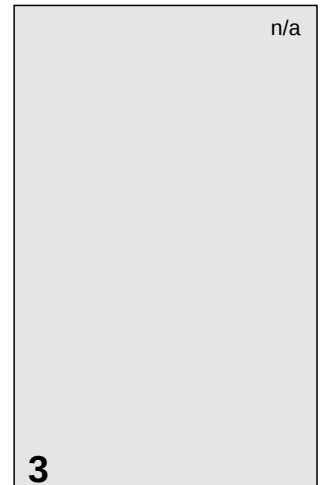
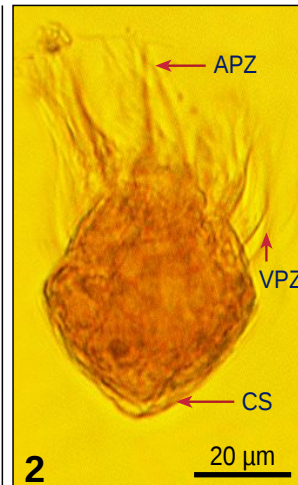
Ecological data

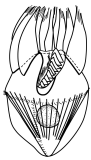
Temperature: 7-20 °C
Salinity: 24-32 ‰

References

Kahl A 1932; Leegaard C 1915; Lynn DH et al. 1988; Montagnes DJS et al. 1988

Fig 1 Line drawings of protargol stained cell, showing kineties, oral structures, extrusomes, and nucleus. **Fig 2** Lugol's fixed cell, showing anterior dome shape. **Fig 4** Lugol's fixed and DAPI stained cell, illustrating nuclear shape; cell shape not preserved. **Fig 5** SEM of Lugol's fixed cell with extruded trichites (Tr). **Fig 6-8** Protargol stains, lateral view, showing distinct extrusomes (E), the girdle kinety (G), and the macronucleus (Ma).





Strombidium acutum (Leegaard, 1915) Kahl, 1932

Species description

Cell truncate to conical, 40 (20-55) μm long and 40 (20-50) μm wide; **posterior end pointed, anterior end forms a dome shape** (Fig 1,2,6); the large extrusomes are distinct in protargol stained cells, they can be numerous to absent and insert anterior to the girdle and extend posteriorly and internally (Fig 1,6-8).

Shallow oral cavity; **APZ distinctly separated from VPZ**; paroral kinety in the upper right surface of oral groove - not visible in Lugol's fixed cells (Fig 1).

Girdle kinety supraequatorial, completely surrounding the cell, with very short cilia (Fig 1, 7,8).

One spherical to oval macronucleus, 9 (8-15) μm in diameter, centrally located (Fig 1,4,6-8).

Similar species

Strombidium reticulatum (anterior protuberance), *S. compressum* (less APks, APZ and VPZ not so clearly separated, small trichites), *S. conicoides* (more APks) *S. basiomorphum* (no distinct extrusomes, long ventral kinety present).

List of synonyms

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Taxonomical remarks

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Notes