



Caption	Fig.1 Colony of the pennate diatom <i>Fragilariopsis oceanica</i> in LM at x16 magnification. From net hauls at 0-30 m depth.
Operator	Bente Edvardsen
Objective	10x
Type/Technique	Light microscopy
Fixative	None (live cell)
Locality	North Atlantic, Greenland Sea

Fragilariopsis oceanica

Kingdom	Chromista
Phylum	Bacillariophyta
Class	Bacillariophyceae
Order	Bacillariales
Family	Bacillariaceae
Genus	<i>Fragilariopsis</i>
Species	<i>oceanica</i>
Authority	(Cleve) Hasle

Description

Forms ribbon-shaped colonies that can be straight, curved or twisted about the apical axis showing some cells in broad girdle view and some in narrow girdle view. There is no interspace between adjacent cells. The cells are rectangular in girdle view. Each cell contains two chloroplasts located along the girdle. The valves are isopolar, subcircular to elliptical with outlines varying according to length of the valves. Valves have an eccentric raphe with a central nodule, the raphe running along the bend between valve and mantle and approximately same number of striae and fibulae.

Morphometrics

Apical axis (isopolar) 10-41 μm , transapical axis 5-8 μm , 12-16 striae and fibulae in 10 μm .

References

Throndsen, J., Hasle, G.R. and Tangen, K., 2007. *Phytoplankton of Norwegian coastal waters*. Almaten Forlag AS. 341 pp.

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