

Diatom Flora of the Low Countries

Fragilaria sandellii B. Van de Vijver et A. Jarlman in B. Van de Vijver, A. Jarlman, M. De Haan et L. Ector 2012

Morphology

Cells forming no chains. Valves lanceolate to elliptic-lanceolate, with clearly convex margins and protracted, rostrate apices. Axial area narrow, linear, straight widening towards the central area, which is an asymmetrical fascia, on one side bordered by shortened striae. Striae very slightly radiate to almost parallel throughout, sometimes alternating.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=2)	10.4-15.4	4.5-4.7	17	
Van de Vijver et al. 2012	11.5-22.0	4.5-6.0	16-18	
Van de Vijver et al. 2021	11-24 (35)	4.5-6.0	16-18 (19)	

Related species

Synedra parvula Kützing sensu H.L.Smith (valves longer 11-70 µm, broadly rounded, protracted and often rostrate, central area often asymmetrically swollen, having a buttressed appearance); *Fragilaria perminuta* (Grunow) Lange-Bertalot (valves lanceolate, with slightly rostrate ends, overall smaller 9-14 µm, lower breadth 3.0-3.5 µm).

Distribution

Viskansbäcken (S); Hagestein boven de sluis (NL).

Ecology

Small rivers, slightly alkaline, low conductivity, slightly elevated total nitrogen, low total phosphorus.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
3	2					

IPS
(Cemagref 1982)

IPS-S	IPS-V

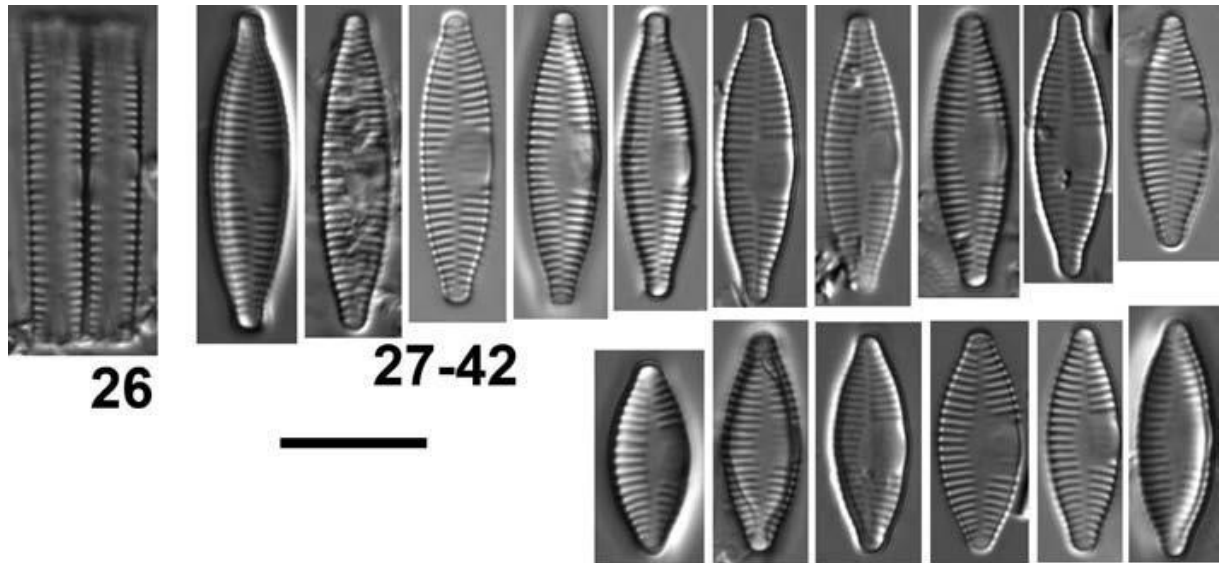
Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
2	2

Remarks



Type population of *F. sandellii* (Viskansbäcken, Sweden)
Van de Vijver et al. (2012) Nova Hedwigia, Beiheft 141: 237–254.



The Netherlands

References:

- Van de Vijver, B., Jarlman, A., De Haan, M. & Ector, L. (2012). New and interesting diatom species (Bacillariophyceae) from Swedish rivers.
- Van de Vijver, B., D. M. Williams, M. Kelly, A. Jarlman, C. E. Wetzel & L. Ector (2021) Analysis of some species resembling *Fragilaria capucina* (Fragilariaceae, Bacillariophyta).
- Van de Vijver, B., A. Mertens, C.E. Wetzel & L. Ector (2021) *Fragilaria capucina* & co.

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