

## ***Dinobryon sertularia* (Ehrenberg, 1834)**

**Most likely ID:** n.a.

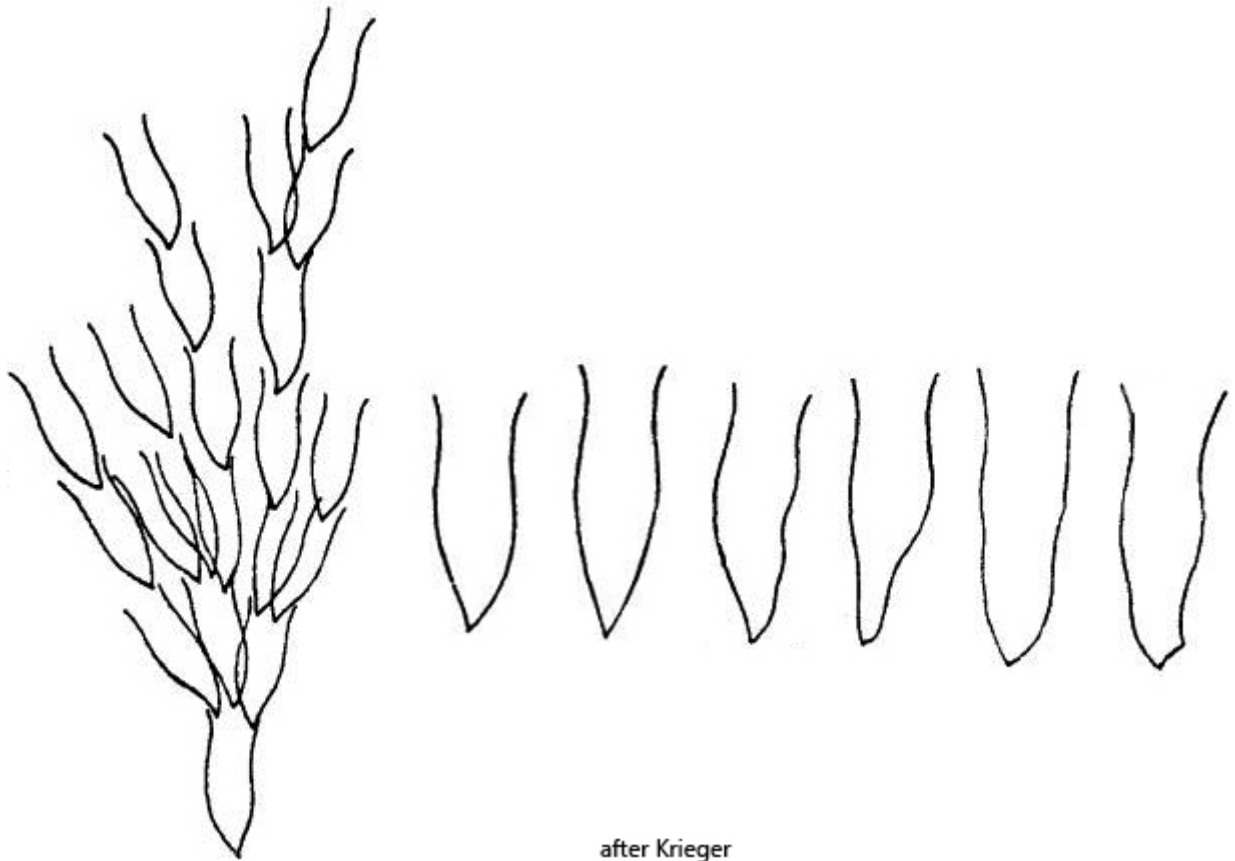
**Synonym:** n.a.

**Sampling location:** [Simmelried](#), [Lake Constance](#), [Bussenried](#), [Pond of the waste disposal company Constance](#), [Mühlweiher Liztelstetten](#), [Hagstaffel pond](#), [Mühlenhalden pond](#)

**Phylogenetic tree:** [Dinobryon sertularia](#)

### **Diagnosis:**

- cells spindle-shaped in a lorica
- cells attached with a tapered stalk of cytoplasm to the posterior part of the lorica
- two golden brown colored chloroplasts
- the anterior chloroplast with an eyespot
- two flagella of different lengths
- one spherical nucleus between chloroplasts
- one contractile vacuoles in midbody
- length of lorica 30–40 µm
- lorica vase-shaped, somewhat bulbous in the middle
- cells forming dense and bushy colonies
- angle between branches of the colony small



Dinobryon sertularia

*Dinobryon sertularia* is by far the most common species of this genus in my sampling sites and is present in almost all plankton samples. Colonies are easily recognized by their dense and bushy shape. The vase-shaped loricae of cellulose are mostly smooth and without wavy undulations as in [Dinobryon divergens](#). The middle part of the lorica is bulbous and the case opening is slightly flared like a funnel. The cells have two flagella of different lengths and two separate chloroplasts. The anterior chloroplast has an eye spot. In the middle between the chloroplasts is the nucleus. The contractile vacuole is located in the middle of the body.

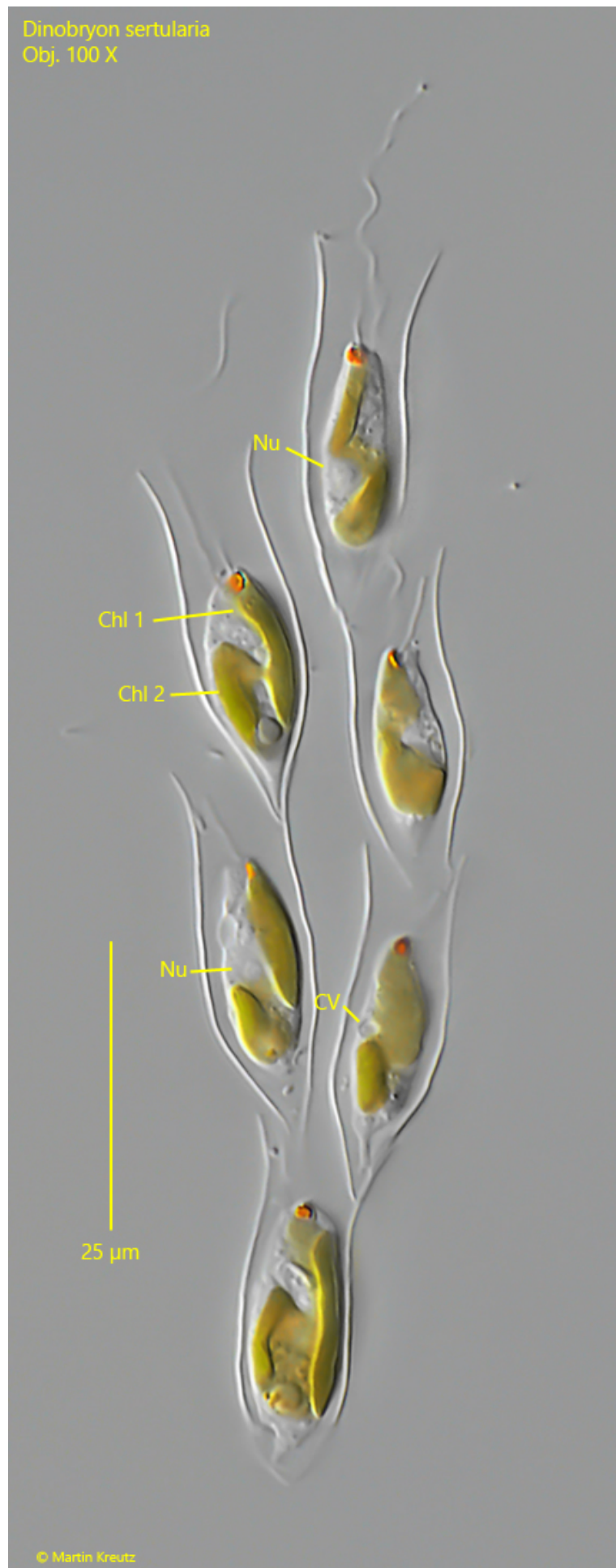
Dinobryon sertularia  
Obj. 100 X



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**Fig. 1:** *Dinobryon sertularia*. L = 136  $\mu\text{m}$  (of colony). A slightly squashed colony. Note the bushy shape. Obj. 100 X.

Dinobryon sertularia  
Obj. 100 X



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**Fig. 2:** *Dinobryon sertularia*. A small colony of 6 cells. Chl 1-2 = chloroplasts, CV = contractile vacuole, Nu = nucleus. Obj. 100 X.