

***Thiospirillum jenense***

**(Ehrenberg 1838) Migula 1900**

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

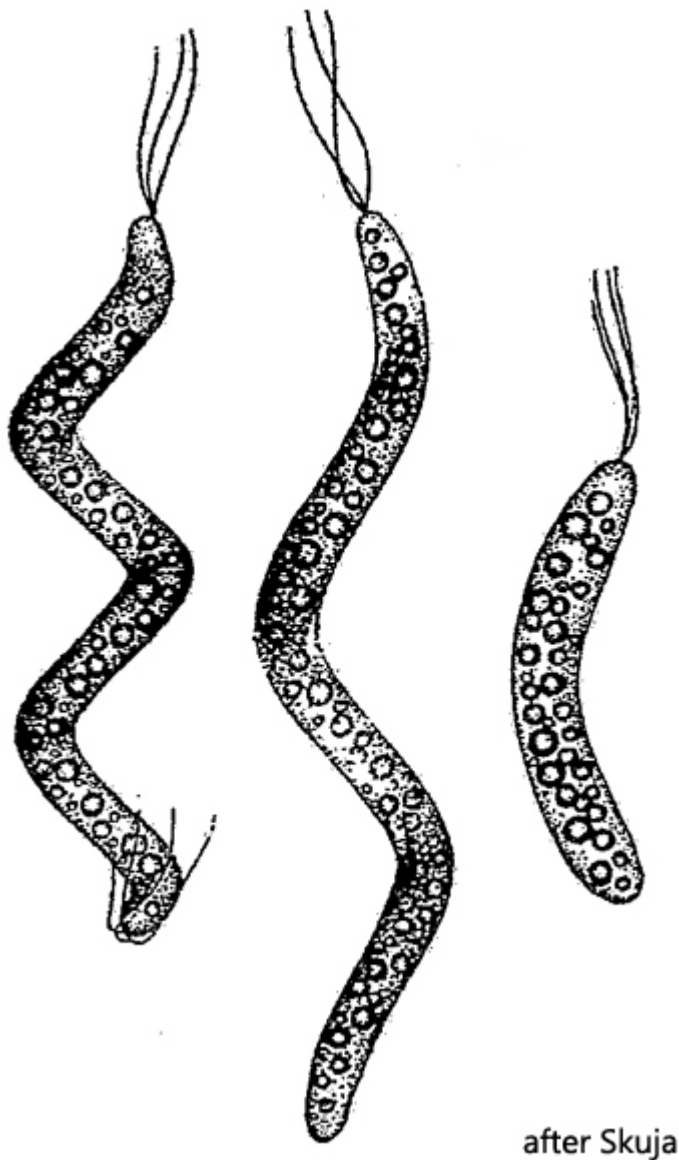
**Synonym:** *Thiospirillum sanguineum*

**Sampling location:** Radolfzell pond

**Phylogenetic tree:** [\*Thiospirillum jenense\*](#)

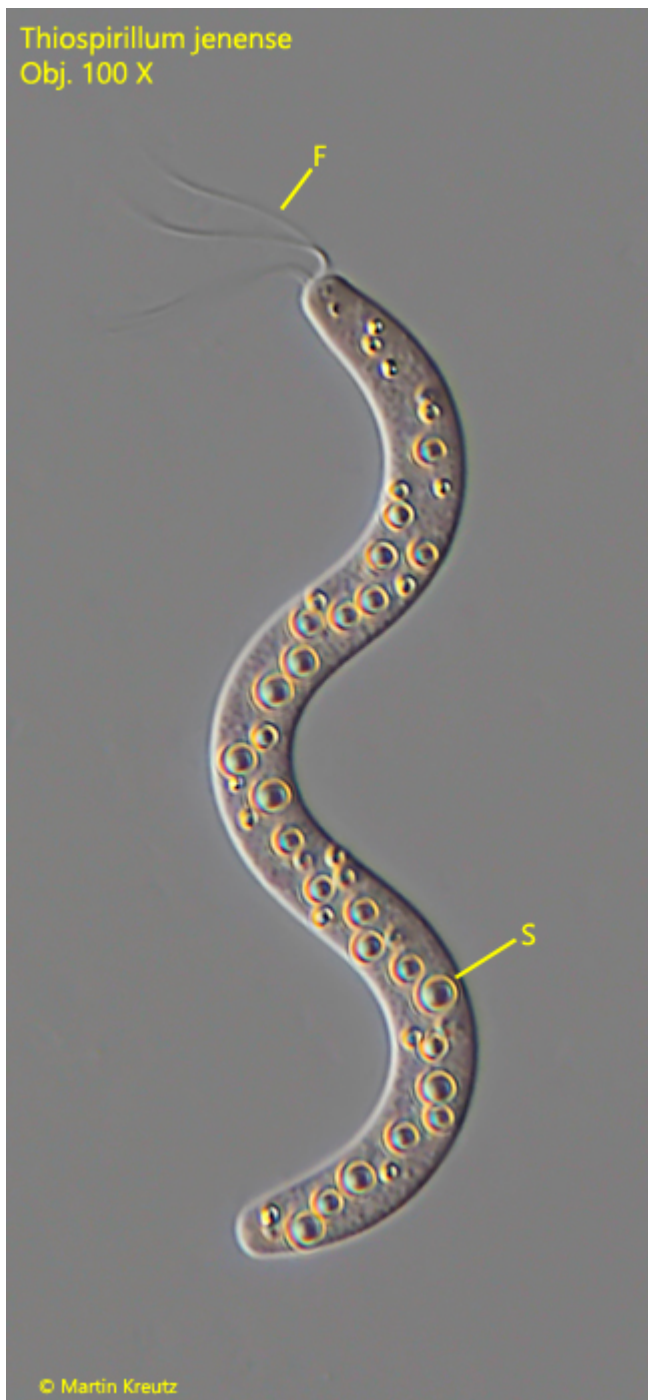
**Diagnosis:**

- cylindrical cells with tapered ends, spirally wound
- length 20 – 100 µm, width 2-5 µm
- cells filled with sulphur globules
- unipolar or bipolar tuft of flagella, about 12 -15 µm long
- yellowish, orange-brown or flesh-like



The beautiful rhodobacterium *Thiospirillum jenense* I found together with [Rhabdochromatium roseum](#) in the same sample from a drainage ditch near the industrial area of Radolfzell. However, *Thiospirillum jenense* was much rarer in the sample. I found only specimens with one tuft of flagella.

It is assumed by Skuja that *Thiospirillum jenense* is synonymous with *Thiospirillum sanguineum* and that it is only a color variant. While *Thiospirillum sanguineum* is supposed to be reddish, *Thiospirillum jenense* is yellowish, orange-brown to flesh-like in color.



**Fig. 1:** *Thiospirillum jenense*. L = 63  $\mu\text{m}$ . A slightly squashed specimen. The tuft of flagella (F) is 12  $\mu\text{m}$  long. S = sulfur globules. Obj. 100 X.