

***Spirotaenia endospira* Archer, 1864**

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

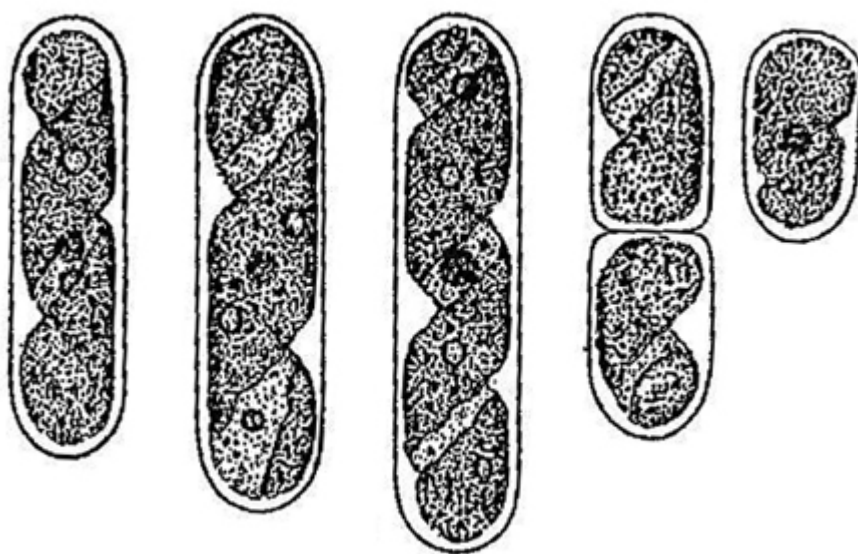
**Synonym:** n.a.

**Sampling location:** [Sima Moor \(Austria\)](#)

**Phylogenetic tree:** [Spirotaenia endospira](#)

**Diagnosis:**

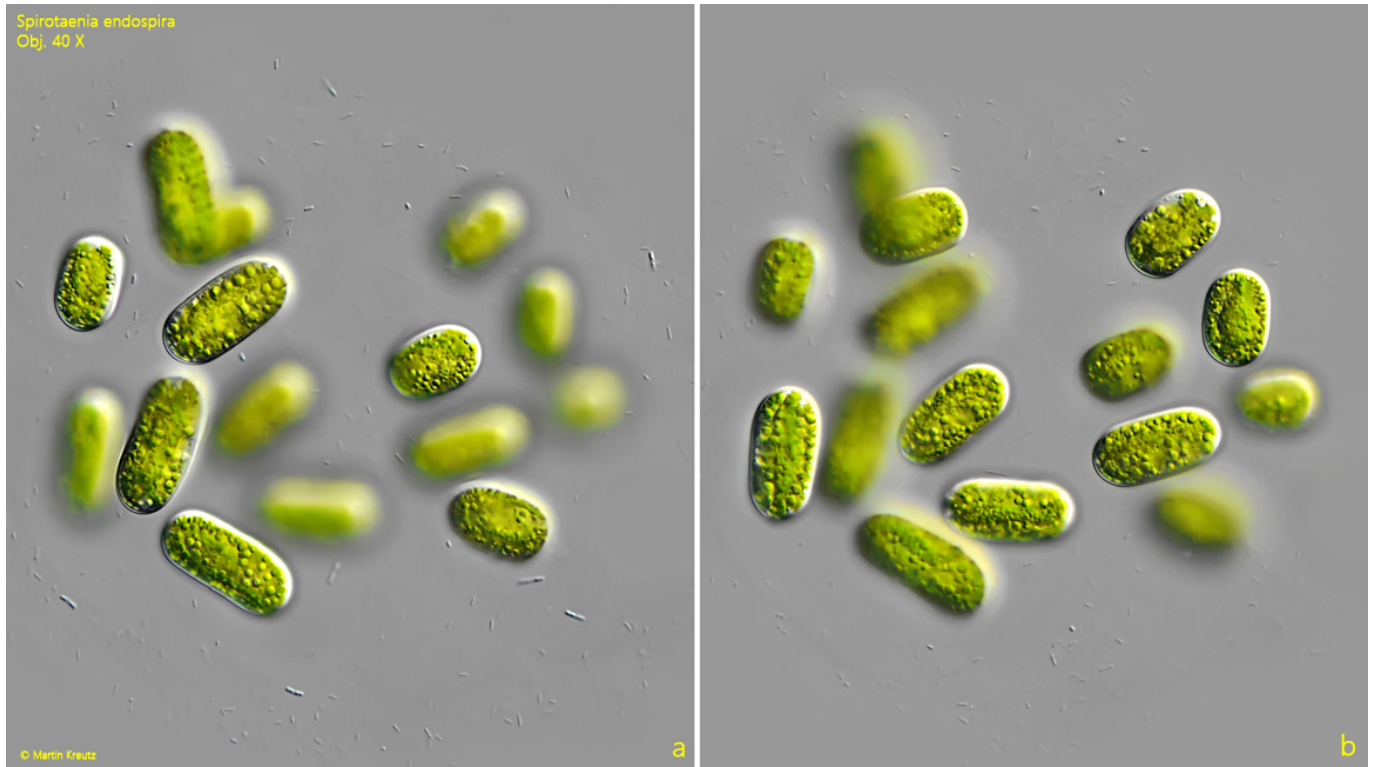
- cells oblong with broadly rounded ends
- several cells in common gelatinous sheath
- cell wall smooth
- length 10-25  $\mu\text{m}$ , width 7-8  $\mu\text{m}$
- cells 3.5-4.5 times longer than wide
- one spirally curled chloroplast, 1-3 coils
- several pyrenoids



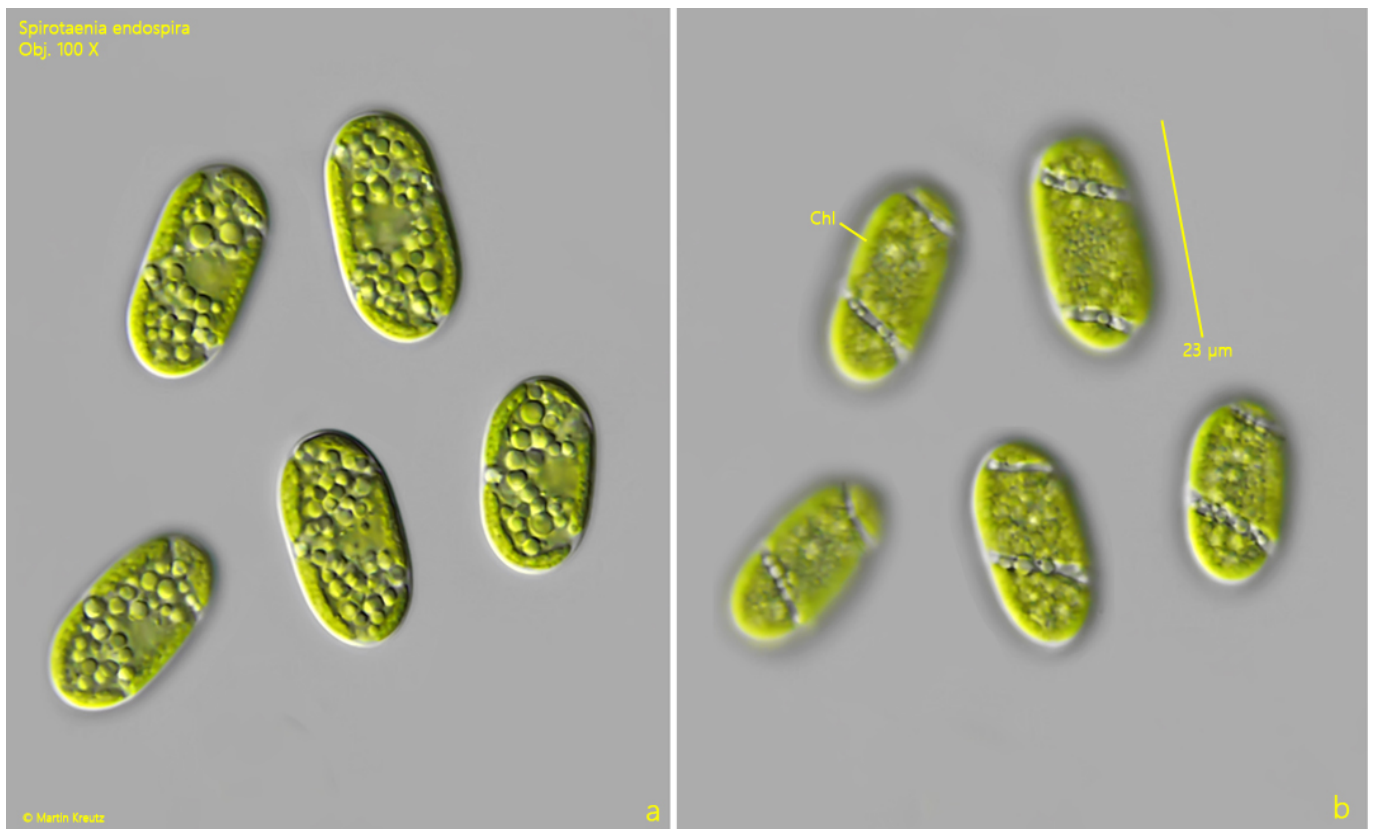
after Lenzenweger

*Spirotaenia endospira*

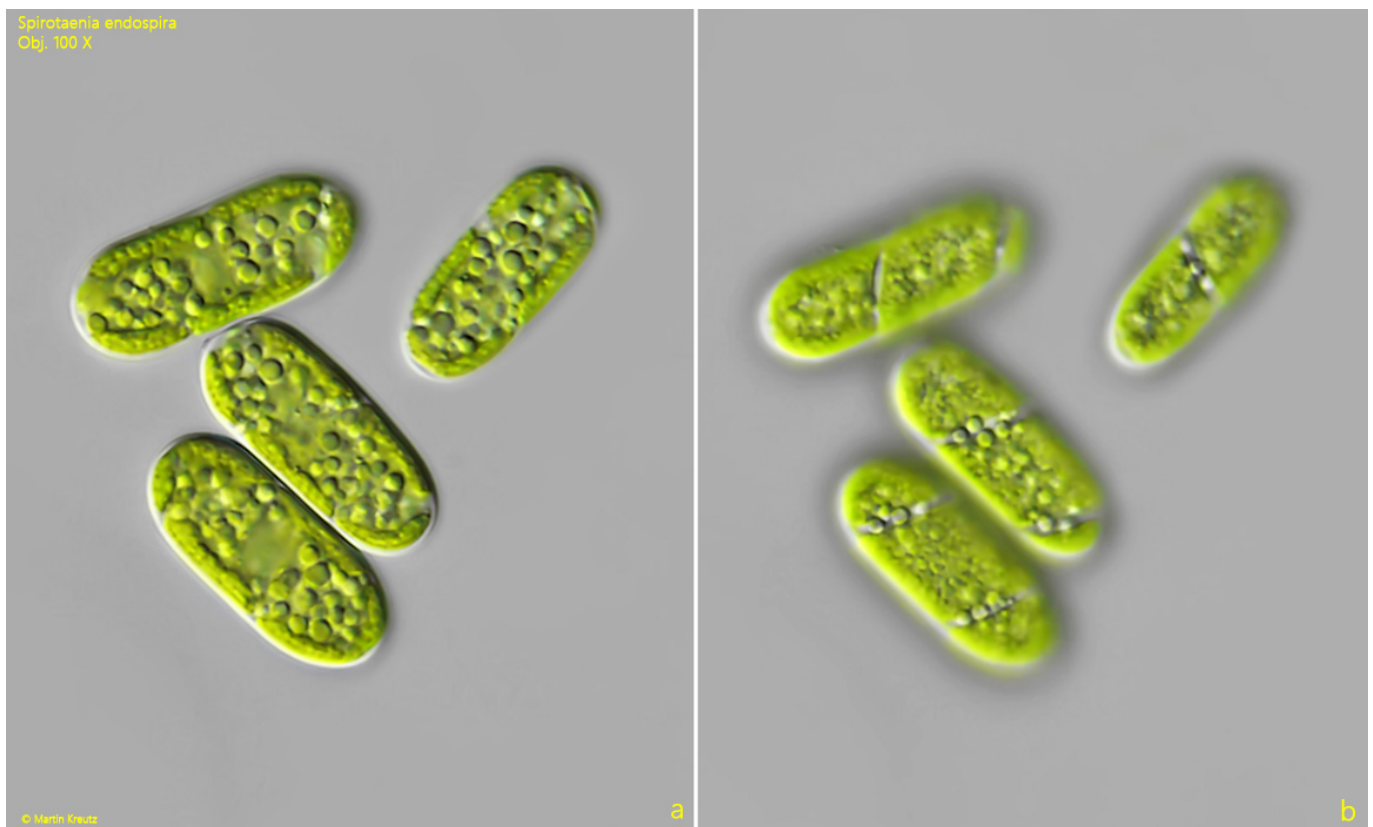
I found *Spirotaenia endospira* in the Sima Moor (Austria). The cells occur in accumulations of several cells in a common gelatinous sheath (s. fig. 1 a-b). At low magnification the species can be confused with small species of the genera *Mesotaenium* or *Cylindrocystis*. However, the chloroplast of *Spirotaenia endospira* is spirally curled what can be clearly reconized at hight magnification (s. figs. 2 a-b and 3 a-b).



**Fig. 1 a-b:** *Spirotaenia endospira*. L = 9-19  $\mu\text{m}$  (of cells). An accumulation of 15 cells in a common gelatinious sheath. Obj. 40 X.



**Fig. 2 a-b:** *Spirotaenia endospira*. L = 20–23 μm. Two focal planes of some cells. Note the curled chloroplast (Chl). Obj. 100 X.



**Fig. 3 a-b:** *Spirotaenia endospira*. L = 20–24 μm. Two focal planes of a second group of cells. Obj. 100 X.