

***Lophocharis salpina* (Ehrenberg 1834)**

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

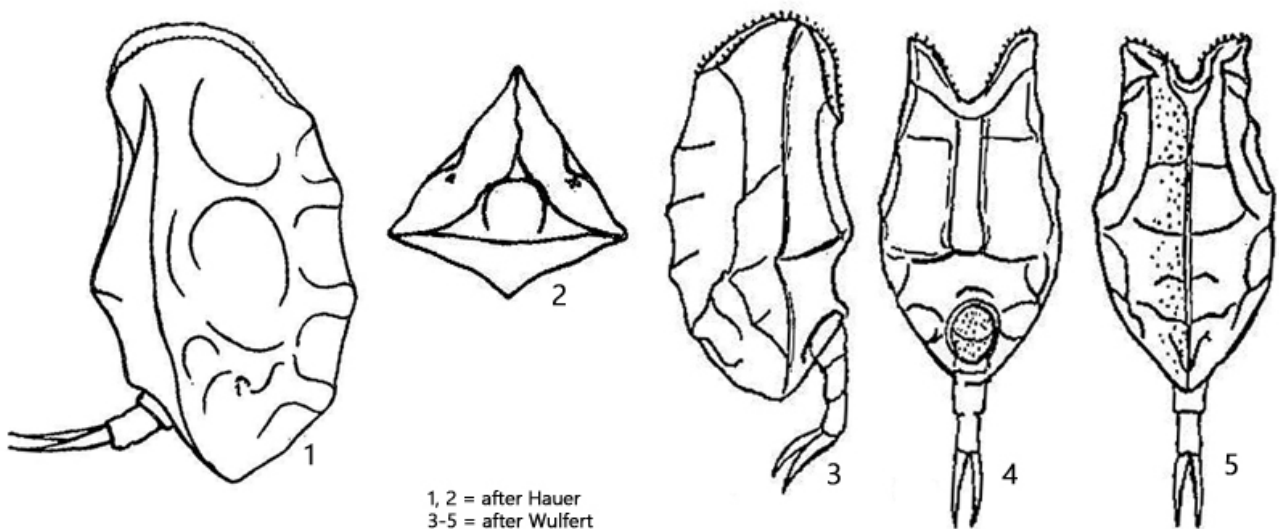
**Synonym:** n.a.

**Sampling location:** [Mühlweiher Litzelstetten](#), [Simmelried](#)

**Phylogenetic tree:** [Lophocharis salpina](#)

**Diagnosis:**

- lorica rigid, one piece
- total length 175-225  $\mu\text{m}$
- lorica with dorsal keel and transverse folds
- lorica rhomboid in cross-section
- ventral sinus angular
- foot groove U-shaped
- surface of lorica granulated
- anterior margin serrated
- eyespots inconspicuous, hard to see
- pair of slender, pointed toes (about 38  $\mu\text{m}$ )



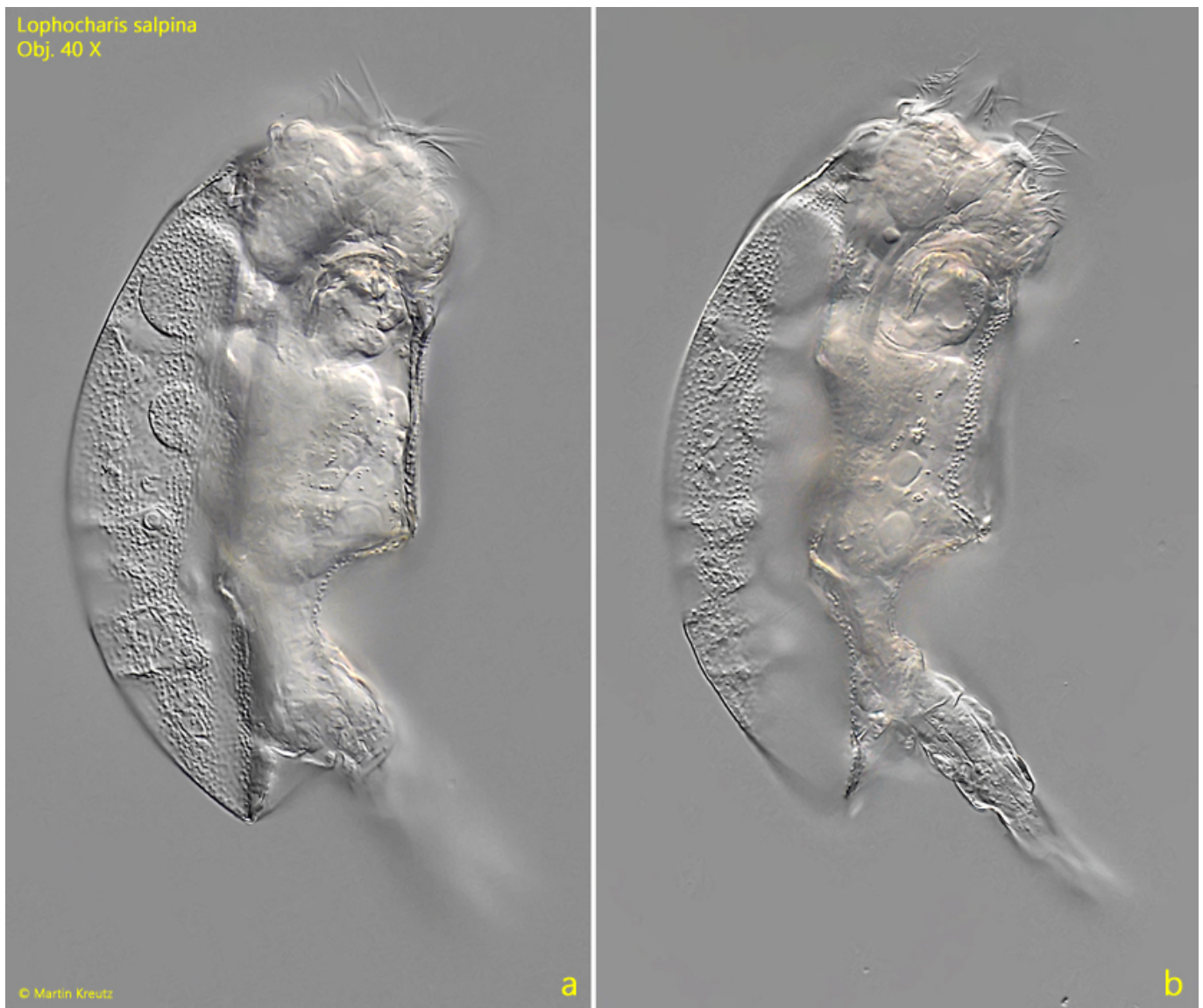
Lophocharis salpina

So far, I have only found *Lophocharis salpina* in the [Simmelried](#) and in the [Mühlweiher Litzelstetten](#). In both locations, the specimens were found among floating aquatic plants. I find this rotifer rarely, but regularly.

*Lophocharis salpina* is a medium-sized rotifer with a characteristically shaped lorica. It consists of one piece and has a distinct dorsal keel. The lorica has weak transverse furrows and is clearly granulated. The apical margin of the lorica is serrated. The ventral sinus is slightly angular, while the dorsal sinus is U-shaped. The foot opening is also U-shaped.

The specimens swim slowly and rotate around their own axis while doing so. Due to the characteristic lorica, the species cannot be confused with any other.

More images and information on *Lophocharis salpina*: [Michael Plewka-Freshwater life-Lophocharis salpina](#)



**Fig. 1 a-b:** *Lophocharis salpina*. L = 196  $\mu$ m. A freely swimming specimen from right. Obj. 40 X.



**Fig. 2 a-b:** *Lophocharis salpina*. L = 196  $\mu$ m. The same specimen as shown in fig. 1 a-b from dorsal (a) and from ventral (b). Note the dorsal keel (DK). Obj. 40 X.





**Fig. 3:** *Lophocharis salpina*. L = 196  $\mu$ m. The slightly squashed specimen as shown in fig. 1 a-b vom ventral. The ventral sinus (VS) is slightly angular, while the foot groove (FG) is U-shaped. Obj. 40 X.



**Fig. 4 a-b:** *Lophocharis salpina*. L = 223  $\mu\text{m}$ . Two focal planes of a slightly squashed specimen from left. Obj. 100 X.





**Fig. 5:** *Lophocharis salpina*. The granulated ventral plate with the serrated anterior margin in detail. Obj. 60 X.



**Fig. 6:** *Lophocharis salpina*. The trophy in a strongly squashed specimen. Obj. 60 X.