

Thiocapsa roseilacustris sp. nov.

Submitted by Cabello-Yeves, Pedro J.

Species *Thiocapsa roseilacustris*

Etymology

[ro.se.i.la.cus'tris] **L. masc. adj.** *roseus*, rose-coloured; **L. fem. adj.** *lacustris*, of a lake, referring to the lacustrine origin and presence of the organism in different lakes; **L. fem. adj.** *roseilacustris*, of a rose lake

Nomenclatural type

[NCBI Assembly: GCF_041903755.1](#)^{Ts}

Description

The *Thiocapsa* genus was defined by Pfennig and Trüper (1971).

The isolation source of this species was the freshwater lake Lagunillo de Cardenillas (Cuenca, Spain). The type strain is *Thiocapsa roseilacustris* strain N5-Cardenillas. It is gram negative with cells of approximately 1.5 µm length and 0.8 µm width ± 0.2 µm. It possesses a mol% G + C content of 63.4%. The genome recovered as a MAG has 6,229,630 bp. MAGs representing composite clones within the same species are available at NCBI-GenBank (Biosample numbers SAMN40716411-SAMN40716415). Nomarsky, TEM and bright-field microscopy pictures are shown in the publication. This species and its associated microbiome are currently enriched and preserved at 4 °C in bottles with the original lake water from 2m winter 2019 campaign and is available under request.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Chromatiales* » *Chromatiaceae* » *Thiocapsa* » *Thiocapsa roseilacustris*

References

Effective publication: Cabello-Yeves et al., 2025 [1]

Registry URL

<https://seqco.de/i:49664>

References

1. Cabello-Yeves et al. (2025). Ecogenomics and limnological dynamics of a new *Thiocapsa* species blooming in the whole water column of a karstic lake. *Limnology and Oceanography*.
[DOI:10.1002/lno.70052](https://doi.org/10.1002/lno.70052)

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List **seqco.de/r:yd1si0sa** submitted by **Cabello-Yeves, Pedro J.** and including 1 new name has been successfully validated.

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