

Genus *Novimethylo tenera*

Etymology

[No.vi.me.thy.lo.te.ne'ra] **L. adj. masc.** *novus*, new; **N.L. fem. n.** *Methylo tenera*, the bacterial genus *Methylo tenera*; **N.L. fem. n.** *Novimethylo tenera*, a new *Methylo tenera*

Nomenclatural type

Species *Novimethylo tenera aquatica*^{Ts}

Description

Type species is *Novimethylo tenera aquatica* ME-M6 (GCA_947054645.1). Although the closest cultivated relative (*Methylo tenera versatilis* 7; GCF_000799165.1) has an average amino acid identity of 80.36% and average nucleotide identity of 76.56%, the genus *Methylo tenera* is known to be polyphyletic in phylogenomic trees (e.g., Salcher et al. 2019; <https://doi.org/10.1038/s41396-019-0471-3>) and some strains that were previously termed *Methylo tenera* should be reclassified. Current GTDB classification of the genus including the closest cultivated relative (GCF_000799165.1) is d__Bacteria; p__Pseudomonadota; c__Gammaproteobacteria; o__Burkholderiales; f__Methylophilaceae; g__Methylo tenera_A. We propose a reclassification of the GTDB genus *Methylo tenera_A* to *Novimethylo tenera*, gen. nov.

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Nitrosomonadales* » *Methylophilaceae* » *Novimethylo tenera*

References

Effective publication: Salcher et al., 2025 [1]

Registry URL

<https://seqco.de/i:48702>

References

1. Salcher et al. (2025). Bringing the uncultivated microbial majority of freshwater ecosystems into culture. *Nature Communications*. [DOI:10.1038/s41467-025-63266-9](https://doi.org/10.1038/s41467-025-63266-9)