

Dehalobacter alkaniphilus sp. nov.

Submitted by Bulka, Olivia

Abstract

Through pangenomic analyses we have found two new multi-strain species of *Dehalobacter*, in addition to the previously validly published *Dehalobacter restrictus*. The two species currently have placeholder names in the GTDB, thus we proposed these new species names instead.

Species *Dehalobacter alkaniphilus*

Etymology

[a.l.ka.ni.phi'lus] N.L. masc. n. *alkanum*, alkane; N.L. masc. adj. *philus*, loving; N.L. masc. adj. *alkaniphilus*, alkane-loving

Nomenclatural type

[NCBI Assembly: GCA_040500365.1](#)^{Ts}

Description

The member of the *Dehalobacter* genus, *Candidatus* *Dehalobacter alkaniphilus*, is a bacterial species identified by metagenomic analyses. These bacteria anaerobically respire chlorinated alkanes through reductive dechlorination using hydrogen as an electron donor.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Eubacteriales* » *Peptococcaceae* » *Dehalobacter* » *Dehalobacter alkaniphilus*

References

Effective publication: Bulka et al., 2024 [1]

Registry URL

<https://seqco.de/i:49180>

References

1. Bulka et al. (2024). Pangenomic insights into *Dehalobacter* evolution and acquisition of functional genes for bioremediation. *Microbial Genomics*. DOI:10.1099/mgen.0.001324

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:xu3eopm7 submitted by **Bulka, Olivia** and including 1 new name has been successfully validated.

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