

Desulfitobacterium nosdiversum sp. nov.

Submitted by He, Guang

Species *Desulfitobacterium nosdiversum*

Etymology

[nos.di.ver'sum] **N.L. pref.** *nos-*, arbitrary prefix referring to nosZ genes; **L. neut. part. adj.** *diversum*, diverse or distinct; **N.L. neut. part. adj.** *nosdiversum*, referring to diverse or distinct nosZ genes

Nomenclatural type

[NCBI Assembly: GCA_049860565.1](#)^{Ts}

Description

This is a complete genome of a taxon that carry a novel type of protein catalyzing N2O reduction

Classification

Bacteria » *Bacillota* » *Clostridia* » *Eubacteriales* » *Peptococcaceae* » *Desulfitobacterium* » *Desulfitobacterium nosdiversum*

References

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

Registry URL

<https://seqco.de/i:49935>

References

1. He et al. (2025). A novel bacterial protein family that catalyses nitrous oxide reduction. *Nature*. DOI:10.1038/s41586-025-09401-4

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:eml1oxac** submitted by **He, Guang** and including 1 new name has been successfully validated.

Date of Priority: 2025-08-23 11:14 UTC
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