

Desulfosporosinus nitroso-reducens sp. nov.

Submitted by He, Guang

Species *Desulfosporosinus nitroso-reducens*

Etymology

[ni.tro.so.re.du'cens] L. masc. adj. *nitrosus*, full of natron, here intended to mean nitrous oxide; L. pres. part. *reducens*, converting to a different state; N.L. part. adj. *nitroso-reducens*, refers to the capability of nitrous oxide reduction

Nomenclatural type

[NCBI Assembly: GCA_030954495.1](https://ncbi.nlm.nih.gov/assembly/GCA_030954495.1)^{Ts}

Description

A novel acidophilic *Desulfosporosinus* species respiring N₂O at pH 4.5. No N₂O reduction at or above pH 7.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Eubacteriales* » *Peptococcaceae* » *Desulfosporosinus* » *Desulfosporosinus nitroso-reducens*

References

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

Registry URL

<https://seqco.de/i:32619>

References

1. He et al. (2024). Sustained bacterial N₂O reduction at acidic pH. *Nature Communications*. DOI:[10.1038/s41467-024-48236-x](https://doi.org/10.1038/s41467-024-48236-x)

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:tf-glp88 submitted by He, Guang and including 1 new name has been successfully validated.

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