

Species *Candidatus Methanoperedens nitroreducens*

Etymology

N.L. *nitro*, pertaining to nitrate; L. *reducens*, leading back, bringing back and in chemistry converting to a different oxidation state; N.L. *nitroreducens*, an organism capable of reducing nitrogen-related compounds

Nomenclatural type

Unknown

Description

Anaerobic, methane-oxidising, nitrate-reducing archaeon belonging to the *Methanoperedenaceae* family. Grows as irregular cocci 1–3 µm in diameter and is typically found as sarcina-like clusters. Growth occurs at mesophilic temperatures (22–35 °C), pH 7–8.

Classification

Archaea » *Methanobacteriota* » “Methanomicrobia” » *Methanosarcinales* » *Candidatus Methanoperedenaceae* » *Candidatus Methanoperedens* » *Candidatus Methanoperedens nitroreducens*

References

Effective publication: Haroon et al., 2013 [1]

Registry URL

<https://seqco.de/i:313>

References

1. Haroon et al. (2013). Anaerobic oxidation of methane coupled to nitrate reduction in a novel archaeal lineage. *Nature*. DOI:[10.1038/nature12375](https://doi.org/10.1038/nature12375)