

Species *Methylomirabilis oxygeniifera*^{Ts}

Etymology

[o.xy.ge.ni.i.fe'ra] N.L. fem. adj. *oxygeniifera*, carrying oxygen

Nomenclatural type

[NCBI Assembly: GCA_000091165.1](#)^{Ts}

Description

The description is the same as given by Ettwig et al., 2010: Methane-oxidizing and nitrite-reducing bacterium of the candidate division NC10. Grows anaerobically, but produces oxygen for the aerobic oxidation of methane. Reduces nitrite to dinitrogen gas without a nitrous oxide reductase. Gram-negative rod with a diameter of 0.25–0.5 μm and a length of 0.8–1.1 μm. Mesophilic with regard to temperature and pH (enriched at 25–30 °C and pH 7–8). Slow growth (doubling time 1–2 weeks).

Classification

Bacteria » *Methylomirabilota* » *Methylomirabilia* » *Methylomirabiales* » *Methylomirabilaceae* » *Methylomirabilis* » *Methylomirabilis oxygeniifera*^{Ts}

References

Effective publication: Ettwig et al., 2010 [1]
Corrigendum: Oren, 2017 [2] (from “*Methylomirabilis oxyfera*”)

Registry URL

<https://seqco.de/i:45>

References

1. Ettwig et al. (2010). Nitrite-driven anaerobic methane oxidation by oxygenic bacteria. *Nature*. [DOI:10.1038/nature08883](https://doi.org/10.1038/nature08883)
2. Oren (2017). A plea for linguistic accuracy – also for Candidatus taxa. *International Journal of Systematic and Evolutionary Microbiology*. [DOI:10.1099/ijsem.0.001715](https://doi.org/10.1099/ijsem.0.001715)