

Methylomirabilis oxygeniifera sp. nov. and Methylomirabilis gen. nov.

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Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Methylomirabilis</i>	[Me.thy.lo.mi.ra.bi'lis] N.L. neut. n. <i>methyl</i> , the methyl group (modern Latin); L. fem. adj. <i>mirabilis</i> , astonishing, strange; N.L. fem. n. <i>Methylomirabilis</i> , a wonderful methyl (group oxidizing) organism	The description is the same as the type species <i>Methylomirabilis oxygeniifera</i> given by Ettwig et al., 2010.	<i>Methylomirabilaceae</i>	<i>Methylomirabilis oxygeniifera</i> ^{Ts}	seqco.de/i:323
Species <i>Methylomirabilis oxygeniifera</i> ^{Ts}	[o.xy.ge.ni.i.fe'ra] N.L. fem. adj. <i>oxygeniifera</i> , carrying oxygen	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).	<i>Methylomirabilis</i>	NCBI Assembly: GCA_000091165.1 ^{Ts}	seqco.de/i:45