

# Methanoplasma 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>Methanoplasma</i>	[Me.tha.no.plas'ma] <b>N.L. neut. n.</b> <i>methanum</i> , methane; <b>Gr. neut. n.</b> <i>plasma</i> , something formed or molded, figure, image; <b>N.L. neut. n.</b> <i>Methanoplasma</i> , a methane-producing form.	The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Strictly anaerobic and chemoheterotrophic. Cells are cocci occurring singly. Cells does not have cell wall. No characteristic fluorescence of methanogens under UV light due to lack of F420. Utilize methanol or methylamines only in combination with H <sub>2</sub> as substrates for methanogenesis.	<i>Methanomethylophilaceae</i>	<i>Methanoplasma termitum</i> <sup>Ts</sup>	<a href="https://seqco.de/i:32483">seqco.de/i:32483</a>
Species <i>Methanoplasma termitum</i> <sup>Ts</sup>	[ter'mi.tum] <b>L. gen. pl. n.</b> <i>termitum</i> , a woodworm, a termite	The species identified by metagenomic analyses. Cells are cocci with a diameter of 0.5–0.8 μm. No cell wall. No autofluorescence under UV light due to lack of cofactor F420. Utilize only H <sub>2</sub> + methanol or H <sub>2</sub> + monomethylamine as substrates for methanogenesis. Require yeast extract, coenzyme M, and vitamins for growth. Species identified by physiological and genomic analyses of a highly enriched culture. The G+C content of the type genome is 49.2 mol%, and the genome size is 1.48 Mbp.	<i>Methanoplasma</i>	NCBI Assembly: GCF_000800805.1 <sup>Ts</sup>	<a href="https://seqco.de/i:46">seqco.de/i:46</a>