

Genus *Methanoplasma*

Etymology

[Me.tha.no.plas'ma] **N.L. neut. n.** *methanum*, methane; **Gr. neut. n.** *plasma*, something formed or molded, figure, image; **N.L. neut. n.** *Methanoplasma*, a methane-producing form.

Nomenclatural type

Species *Methanoplasma termitum*^{Ts}

Description

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 H₂ as substrates for methanogenesis.

Classification

Archaea » *Methanobacteriota* » *Thermoplasmata* » *Methanomassiliicoccales* » *Methanomethylophilaceae* » *Methanoplasma*

References

Effective publication: Lang et al., 2015 [1]

Registry URL

<https://seqco.de/i:32483>

References

1. Lang et al. (2015). New Mode of Energy Metabolism in the Seventh Order of Methanogens as Revealed by Comparative Genome Analysis of "Candidatus *Methanoplasma termitum*". *Applied and Environmental Microbiology*. DOI:10.1128/aem.03389-14