

Genus *Methanarmilla*

Etymology

[Me.than.ar.mil'la] **N.L. neut. n.** *methanum*, methane; **L. fem. n.** *armilla*, bracelet; **N.L. fem. n.** *Methanarmilla*, methane-producing bracelet, referring to the short chains of cells formed by the type species

Nomenclatural type

Species *Methanarmilla wolinii*^{TS}

Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Short oval rods or coccobacilli, 0.6 µm in width and 1–1.8 µm in length. Cells occur singly, in pairs or in short chains. Gram positive. Nonmotile. Require complex medium with acetate, yeast extract, trypticase, volatile fatty acids, coenzyme M. Optimum temperature is 37–40° C. Use H₂ + CO₂ or formate + CO₂ as substrates for methanogenesis.

Classification

Archaea » *Methanobacteriota* » *Methanobacteria* » *Methanobacteriales* » *Methanobacteriaceae* » *Methanarmilla*

References

Effective publication: Protasov et al., 2023 [1]

Registry URL

<https://seqco.de/i:32439>

References

1. Protasov et al. (2023). Diversity and taxonomic revision of methanogens and other archaea in the intestinal tract of terrestrial arthropods. *Frontiers in Microbiology*. [DOI:10.3389/fmicb.2023.1281628](https://doi.org/10.3389/fmicb.2023.1281628)