

Genus *Methanacia*

Etymology

[Me.than.a'ci.a] **N.L. neut. n.** *methanum*, methane; **L. fem. n.** *acia*, thread, yarn; **N.L. fem. n.** *Methanacia*, a methane-producing thread

Nomenclatural type

Species *Methanacia filiformis*^{T5}

Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Filamentous rods with slightly tapered ends. Gram positive. Nonmotile. Strict anaerobe. Require yeast extract for growth. Optimum temperature is 30 °C. Use H₂ + CO₂ as substrates for methanogenesis.

Classification

Archaea » *Methanobacteriota* » *Methanobacteria* » *Methanobacteriales* » *Methanobacteriaceae* » *Methanacia*

References

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

Registry URL

<https://seqco.de/i:32450>

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