

Species *Methanacia filiformis*^{Ts}

Etymology

[fi.li.for'mis.] L. neut. n. *filum*, a thread; L. fem. adj. suff. *-formis*, like, in the shape of; N.L. fem. adj. *filiformis*, thread-shaped

Nomenclatural type

[NCBI Assembly: GCF_001639265.1](#)^{Ts}

Reference Strain

RFM-3 = [DSM 11501](#)

Description

Filament-forming rods with slightly tapered ends, 0.23–0.28 µm in width by up to several hundred µm in length. Rarely occurs as single 4-µm-long cells. Nonmotile. strict anaerobe. Catalase positive. Metabolizes H₂ and CO₂ to CH₄. Optimum temperature is 30 °C (range 10–33.5 °C). Optimum pH is 7.0–7.2 (range 6.0–7.5). Yeast extract (>0.01%) is required for growth (as in [Miller, 2015](#)). The G+C content of the type genome is 26.9 mol%, and the genome size is 2.60 Mbp.

Classification

Archaea » *Methanobacteriota* » *Methanobacteria* » *Methanobacteriales* » *Methanobacteriaceae* » *Methanacia* » *Methanacia filiformis*^{Ts}

References

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

Registry URL

<https://seqco.de/i:32451>

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)