Species *Methanocatella smithii*[Ts]

Etymology

[smith'i.i] **N.L. gen. masc. n.** *smithii*, of Smith, named after P.H. Smith, who isolated the type strain

Nomenclatural type

NCBI Assembly: GCF_000016525.1 [Ts]

Reference Strain

ATCC 35061 = PS = DSM 861

Description

The species identified by metagenomic analyses. The G+C content of the type genome is 31.0 mol%, and the genome size is 1.85 Mbp. Cells are short oval rods or coccobacilli with tapered ends, 0.6–0.7 µm in width and ~1.0 µm in length. Cells occur most frequently in pairs or in chains of 4–6 cells. Gram positive. Nonmotile. H2 and CO2 are the preferred energy sources. Growth on formate is poor. Cells grow optimally at 37 to 39 °C. (as in Balch et al., 1979; Miller, 2015).

Classification

Archaea » *Methanobacteriota* » *Methanobacteria* » *Methanobacteriales* » *Methanobacteriaceae* » *Methanocatella* » *Methanocatella smithii*[Ts]

References

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

Registry URL

https://seqco.de/i:32433

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