Species *Methanoflexus curvatus*[Ts]

Etymology

[cur.va'tus] **L. masc. adj.** *curvatus*, bent, curved; referring to the shape of the cell

Nomenclatural type

NCBI Assembly: GCF_001639295.1 [Ts]

Reference Strain

DSM 11111

Description

Curved rods with slightly tapered ends, 0.34 by 1.6 µm in size, occurring singly or in pairs. Nonmotile. Metabolizes H2 and CO2, yielding CH4 as the sole product. Optimum temperature is 30 °C (range10–30 °C). Optimum pH is 7.1–7.2 (range 6.5–8.5). Complex nutritional supplements, e.g., 40% (v/v) clarified rumen fluid and nutrient broth (Difco) are required for growth (as in Miller, 2015). The G+C content of the type genome is 25.7 mol%, and the genome size is 2.41 Mbp.

Classification

Archaea » *Methanobacteriota* » *Methanobacteria* » *Methanobacteriales* » *Methanobacteriaceae* » *Methanoflexus* » *Methanoflexus curvatus*[Ts]

References

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

Registry URL

https://seqco.de/i:32448

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