

## Species *Methanoflexus curvatus*<sup>Ts</sup>

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### Etymology

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

### Nomenclatural type

[NCBI Assembly: GCF\\_001639295.1](#)<sup>Ts</sup>

### 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 H<sub>2</sub> and CO<sub>2</sub>, yielding CH<sub>4</sub> as the sole product. Optimum temperature is 30 °C (range 10–30 °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*<sup>Ts</sup>

### 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](https://doi.org/10.3389/fmicb.2023.1281628)