

## Genus *Methanoflexus*

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### Etymology

[Me.tha.no.fle'xus] N.L. **pref.** *methano-*, pertaining to methane; L. **masc. n.** *flexus*, a bending, turning, winding; N.L. **masc. n.** *Methanoflexus*, methane-producing (organism) with a curved shape

### Nomenclatural type

Species *Methanoflexus curvatus*<sup>T5</sup>

### Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Curved rods that occur singly, in pairs, or in chains. Gram positive. Nonmotile. Strict anaerobe. Require yeast extract or rumen fluid for growth. Optimum temperature is 30 °C. Use H<sub>2</sub> + CO<sub>2</sub> as substrates for methanogenesis.

### Classification

Archaea » Methanobacteriota » Methanobacteria » Methanobacteriales » Methanobacteriaceae » *Methanoflexus*

### References

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

### Registry URL

<https://seqco.de/i:32447>

## 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