

Genus *Methanobaculum*

Etymology

[Me.tha.no.ba'cu.lum] **N.L. pref.** *methano-*, pertaining to methane; **L. neut. n.** *baculum*, small rod; **N.L. neut. n.** *Methanobaculum*, a small methane-producing rod.

Nomenclatural type

Species *Methanobaculum cuticulare*^{T5}

Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Straight short rods with slightly tapered ends that occur singly, in pairs, or in short chains. Non-motile. Gram-positive. Strict anaerobe. Use H₂ + CO₂ as substrates for methanogenesis, growth on formate is poor. Grow poorly on mineral medium with vitamins. Yeast extract, casamino acids, and rumen fluid strongly stimulate growth. Optimum temperature is 30–37 °C.

Classification

Archaea » *Methanobacteriota* » *Methanobacteria* » *Methanobacteriales* » *Methanobacteriaceae* » *Methanobaculum*

References

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

Registry URL

<https://seqco.de/i:32445>

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)