

Species *Methanimicrococcus hacksteinii*

Etymology

[hack.stein'i.i.] N.L. gen. masc. n. *hacksteinii*, of Hackstein, named in honor of Johannes H.P. Hackstein for his important contributions on the hydrogenosomes of anaerobic protists and methanogenesis in arthropod guts

Nomenclatural type

[NCBI Assembly: GCA_032714515.1](#)^{TS}

Reference Strain

[DSM 115570](#) = [JCM 39383](#)

Description

Irregular cocci cells 1–2 µm in diameter, non-motile. Use methanol and methylamines as methanogenesis substrates together with hydrogen. Requires acetate, Casamino acids, and coenzyme M. The optimum temperature is 37 °C. The G+C content of the type genome is 42.9%, and the estimated genome size is 2.04 Mbp.

Classification

Archaea » *Methanobacteriota* » "Methanomicrobia" » *Methanosarcinales* » *Methanosarcinaceae* » *Methanimicrococcus* » *Methanimicrococcus hacksteinii*

References

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

Registry URL

<https://seqco.de/i:32595>

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)