

Genus *Methanolapillus*

Etymology

[Me.tha.no.la'pil.lus] N.L. pref. *methano-*, pertaining to methane; L. masc. n. *lapillus*, a pebble, gem, jewel; N.L. masc. n. *Methanolapillus*, a methane-producing jewel

Nomenclatural type

Species *Methanolapillus millepedarum*^{Ts}

Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Cells are irregular cocci, 1-2 µm. Cells occur singly or sometimes in aggregates. Nonmotile. Require complex medium with yeast extract, peptone, and casamino acids. Grow between 25-42° C. H₂ and methanol are the substrates for methanogenesis; methylamines can substitute methanol.

Classification

Archaea » *Methanobacteriota* » "Methanomicrobia" » *Methanosarcinales* » *Methanosarcinaceae* » *Methanolapillus*

References

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

Registry URL

<https://seqco.de/i:32601>

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