

Genus *Andeanibacterium*

Etymology

[An.de.a.ni.bac.te'ri.um] **N.L. masc. adj.** *andeanus*, pertaining to the Andes; **N.L. neut. n.** *bacterium*, small rod; **N.L. neut. n.** *Andeanibacterium*, Andean rod

Nomenclatural type

Species *Andeanibacterium colombiense*^{T5}

Description

A genus established on the basis of MiGA taxonomic novelty analyses, AAI, dDDH, 16S rRNA gene phylogenetic reconstruction, and phylogenomic analyses and is classified as a member of the *Sphingomonadaceae* family. Genomic metrics include ANI (79.88), AAI (61.59) and dDDH d4 (20.1). The MAG was reconstructed from lignocellulolytic bacterial consortium and encoded for 54 CAZymes, 15 of them involved in lignocellulose degradation. In addition, putative genes for PET hydrolysis were found within the MAG.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Sphingomonadales* » *Sphingomonadaceae* » *Andeanibacterium*

References

Effective publication: Díaz-García et al., 2024 [1]

Registry URL

<https://seqco.de/i:24097>

References

1. Díaz-García et al. (2024). Andean soil-derived lignocellulolytic bacterial consortium as a source of novel taxa and putative plastic-active enzymes. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2023.126485