

Species *Brevundimonas phytovorans*

Etymology

[phy.to.vo'rans.] Gr. neut. n. *phyton*, plant; L. pres. part. *vorans*, devouring, destroying; N.L. fem. part. adj. *phytovorans*, plant-devouring

Nomenclatural type

[INSDC Nucleotide: CP119309.1](#)^{Ts}

Description

A species established on the basis of MiGA taxonomic novelty analyses, AAI, dDDH, 16S rRNA gene phylogenetic reconstruction and the type material is the genome MAG_1865. Genomic metrics include ANI (91.28), AAI (87.92) and dDDH d4 (40.3). The MAG was reconstructed from lignocellulolytic bacterial consortium and encoded for 39 CAZymes, 6 of them involved in lignocellulose degradation. In addition, putative genes for protocatechuate and phthalate catabolism were found within the MAG.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Caulobacterales* » *Caulobacteraceae* » *Brevundimonas* » *Brevundimonas phytovorans*

References

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

Registry URL

<https://seqco.de/i:24099>

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