

Species *Phycocordibacter aenigmaticus*^{Ts}

Etymology

[ae.nig.ma'ti.cus] **L. masc. adj.** *aenigmaticus*, enigmatic or obscure

Nomenclatural type

[NCBI Assembly: GCA_045401115.1](#)^{Ts}

Description

This is a Patescibacteria group bacterium that is a symbiont of the microalgae *Nannochloropsis oceanica* strain IMET1 and *Tetrademus obliquus* strain HTB1. Both microalgae are grown with 10% CO₂ in our laboratory for carbon mitigation research. This bacterium was found at the 1 L and 500 L scale and has a genome size of 721,362 bp.

Classification

Bacteria » *Patescibacteriota* » "Patescibacteria" » *Phycocordibacterales* » *Phycocordibacteraceae* » *Phycocordibacter* » *Phycocordibacter aenigmaticus*^{Ts}

References

Effective publication: Jonas et al., 2025 [1]

Registry URL

<https://seqco.de/i:49172>

References

1. Jonas et al. (2025). Two novel Patescibacteria: *Phycocordibacter aenigmaticus* gen. nov. sp. nov. and *Minusculum obligatum* gen. nov. sp. nov., both associated with microalgae optimized for carbon dioxide sequestration from flue gas. *mBio*. DOI:10.1128/mbio.01231-25