

Species *Panacibacter polaris*

Etymology

[po.la'ris] **L. masc. adj.** *polaris*, of, or pertaining to, a pole

Nomenclatural type

[NCBI Assembly: GCA_965610815.1](#)^{Ts}

Description

The type material is the metagenome assembled genome BH-10_BAC2 recovered from soil from Bunger Hills, East Antarctica. The MAG consists of 5.9 Mbp in 81 contigs with an estimated completeness of 100% and 0.07% contamination, 16S (1529 bp) and 23S (2541 bp) genes, and 48 tRNAs (21 unique: 20 standard plus tRNA-fMet). The GC content of this MAG is 38.5%. Predicted to aerobically oxidise CO, and reduce nitrite (NO-forming nitrite reductase). Genome also harbours a catechol 2,3-dioxygenase [EC:1.13.11.2] and a sensory rhodopsin.

Classification

Bacteria » *Bacteroidota* » *Chitinophagia* » *Chitinophagales* » *Chitinophagaceae* » *Panacibacter* » *Panacibacter polaris*

References

Effective publication: Tan et al., 2026 [1]

Registry URL

<https://seqco.de/i:51192>

References

1. Tan et al. (2026). Persistent petroleum pollution shifts soil microbial responses in Bunger Hills, East Antarctica. *Communications Earth & Environment*. [DOI:10.1038/s43247-026-03299-0](https://doi.org/10.1038/s43247-026-03299-0)