Species *Cryogemmata carboxiditropha*[Ts]

Etymology
[car.bo.xi.di.tro'pha] **N.L. neut. adj.** *carboxidum*, carbon monoxide; **Gr. fem. adj.** *trophos*, feeder; **N.L. fem. adj.** *carboxiditropha*, carbon monoxide-eater

Nomenclatural type
NCBI Assembly: GCA_965609615.1 [Ts]

Description
The type material is the metagenome assembled genome BH-18_GEM1 recovered from soil from Bunger Hills, East Antarctica. The MAG consists of 2.5 Mbp in 116 contigs with an estimated completeness of 94.07% and 0.69% contamination, 16S (1572 bp) gene, and 46 tRNAs (20 unique: 18 standard plus tRNA-fMet and tRNA-SeC). The GC content of this MAG is 67.6%. Predicted to reduce nitrite (NO-forming nitrite reductase) and oxidise CO aerobically.

Classification
Bacteria » *Gemmatimonadota* » *Gemmatimonadia* » *Cryogemmatales* » *Cryogemmataceae* » *Cryogemmata* » *Cryogemmata carboxiditropha*[Ts]

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

Registry URL
https://seqco.de/i:51205

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