
Species *Electronema qinghaiense*

Etymology

[qing.hai.en'se] **N.L. neut. adj.** *qinghaiense*, of Qinghai, the province where salt lake is located in China, and this organism was obtained from

Nomenclatural type

[NCBI Assembly: GCA_052784985.1](#) ^{Ts}

Description

Filamentous bacteria of centimeter length that inhabit the hypersaline water sediment and conduct electrons from sulfide-oxidizing cells to oxygen-reducing cells. Gram-negative. CO₂ fixation via the Wood-Ljungdahl pathway. Contains c-type cytochromes, type IV pili (PilA) and trk system potassium uptake protein. Polyphosphate and polyglucose storage. Distinguishable by genome.

Classification

Bacteria » *Desulfobacterota* » *Desulfobulbia* » *Desulfobales* » *Desulfobulbaceae* » *Electronema* » *Electronema qinghaiense*

References

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

Registry URL

<https://seqco.de/i:49666>

References

1. Hu et al. (2025). Insights on adaptive strategies and evolution of cable bacteria in saline lakes. *Limnology and Oceanography*. [DOI:10.1002/lno.70262](https://doi.org/10.1002/lno.70262)