

Order *Fervidibacterales*

Etymology

[Fer.vi.di.bac.ter.a'les] **N.L. masc. n.** *Fervidibacter*, referring to the type genus *Fervidibacter*; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Fervidibacterales*, the *Fervidibacter* order

Nomenclatural type

Genus *Fervidibacter*

Description

Members of the order are aerobic or anaerobic, with both high- and low-affinity terminal oxidases present in the aerobic *Fervidibacterales*. All members are likely polysaccharide degraders as numerous carbohydrate active enzymes are found in all members of the order. Phylogenomics and relative evolutionary divergence places this order in the class *Fervidibacteria*.

Classification

Bacteria » *Armatimonadota* » *Fervidibacteria* » *Fervidibacterales*

References

Effective publication: Nou et al., 2024 [1]

Registry URL

<https://seqco.de/i:44091>

References

1. Nou et al. (2024). Genome-guided isolation of the hyperthermophilic aerobe *Fervidibacter sacchari* reveals conserved polysaccharide metabolism in the *Armatimonadota*. *Nature Communications*. DOI:[10.1038/s41467-024-53784-3](https://doi.org/10.1038/s41467-024-53784-3)