Genus Caldisaccharidevorator

Etymology

[Cal.di.sac.cha.ri.de.vo.ra'tor] L. masc. adj. caldus, hot; L. neut. n. saccharum, sugar; L. masc. n. devorator, devourer; N.L. masc. n. Caldisaccharidevorator, hot sugar devourer

Nomenclatural type

Species Caldisaccharidevorator sinensis^{Ts}

Description

Genomes belonging to the genus have been recovered from metagenomic sequence data from thermal environments from Malaysia and China. GC content range between 55-57%. ANI and AAI values among members of the genus are incongruent, although ANI values > 75% are observed among the two species in the genus. Based on available genome data, the genus likely comprise aerobic polysaccharide-degrading species, with the low-affinity terminal oxidase (CoxABC) conserved in the genus. Approximately 100 glycoside hydrolases (GHs) are encoded by genomes in the genus with > 40 GH families represented. No hydrogenases were predicted for genomes belonging to this genus.

Classification

Bacteria » Armatimonadota » Fervidibacteria » Fervidibacterales » Fervidibacteraceae » Caldisaccharidevorator

References

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

Registry URL

https://segco.de/i:44082

References

 Nou et al. (2024). Genome-guided isolation of the hyperthermophilic aerobe Fervidibacter sacchari reveals conserved polysaccharide metabolism in the Armatimonadota. *Nature Communications*. <u>DOI:10.1038/s41467-024-53784-3</u>