

Syntrophacetatiphaga salishiae gen. nov. sp. nov.

Submitted by Ziels, Ryan

Abstract

A syntrophic acetate oxidizing organism characterized in a biogas microbial community, utilizing the oxidative glycine pathway for acetate oxidation to formate.

Genus *Syntrophacetatiphaga*

Etymology

[Syn.tro.pha.ce.ta.ti.pha'ga] **Gr. prep. syn**, together with; **Gr. fem. n. trophos**, one who feeds; **N.L. masc. n. acetas**, acetate; **Gr. inf. v. phagein**, to eat; **N.L. fem. n. Syntrophacetatiphaga**, syntrophic eater of acetate

Nomenclatural type

Species *Syntrophacetatiphaga salishiae*^{Ts}

Description

A genus containing syntrophic acetate oxidizing bacteria commonly found in anoxic engineered environments like landfills and anaerobic digesters.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Peptostreptococcales* » *Natronincolaceae* » *Syntrophacetatiphaga*

References

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

Registry URL

<https://seqco.de/i:50970>

Species *Syntrophacetatiphaga salishiae*^{Ts}

Etymology

[sa.lish'i.ae] **L. gen. n. salishiae**, of Salish, pertaining to the Coast Salish people and their lands, and referring to the sampling location for this organism

Nomenclatural type

[NCBI Assembly: GCA_050950445.1](#)^{Ts}

Description

A syntrophic acetate oxidizing bacterium that is commonly found in anoxic engineered environments like landfills and anaerobic digesters.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Peptostreptococcales* » *Natronincolaceae* » *Syntrophacetatiphaga* » *Syntrophacetatiphaga salishiae*^{Ts}

References

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

Registry URL

<https://seqco.de/i:49846>

References

1. Friedline et al. (2025). Activity-targeted metaproteomics uncovers rare syntrophic bacteria central to anaerobic community metabolism. *Nature Microbiology*. [DOI:10.1038/s41564-025-02146-w](https://doi.org/10.1038/s41564-025-02146-w)

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List **seqco.de/r:nx_72bs4** submitted by **Ziels, Ryan** and including 2 new names has been successfully validated.

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