

Species *Aadella gelida*^{Ts}

Etymology

[ge.li'da] L. fem. adj. *gelida*, ice-cold; in reference to the very cold temperature of Ace Lake.

Nomenclatural type

[NCBI Assembly: GCA_030765205.1](#)^{Ts}

Description

This species is the type for the genus *Aadella*. The description for this species is derived from Williams et al., 2021, and supplemented with additional information. Genome predictions designate this species as heterotrophic and capable of fermentation of glucose to acetyl-CoA through the EMP pathway. Proteases and peptidases for the degradation of proteins to amino acids is also encoded within the genome. Additionally, simple sugar transport and glycoside hydrolases are encoded by the genome and genes required for the synthesis of trehalose and glycogen are also present. The genome representative of this species encodes a V-type ATPase and an Rnf complex for ATP synthesis, and a Group 3b [NiFe] hydrogenase has been reported for this species. All components for a Type-4a pilus is encoded by the genome. The nomenclatural type for the species is the genome designated 3300035698_848.

Classification

Bacteria » *Omnitrophota* » “*Gorgyraia*” » “*Tantalellales*” » “*Tantalellaceae*” » *Aadella* » *Aadella gelida*^{Ts}

References

Effective publication: Williams et al., 2021 [1]

Registry URL

<https://seqco.de/i:33273>

References

1. Williams et al. (2021). Shedding Light on Microbial “Dark Matter”: Insights Into Novel Cloacimonadota and Omnitrophota From an Antarctic Lake. *Frontiers in Microbiology*. DOI:10.3389/fmicb.2021.741077