

Genus *Aalborgiella*

Etymology

[Aal.bor.gi.el'la] **N.L. fem. dim. n.** *Aalborgiella*, bacterium named after the city Aalborg where the MAG had been retrieved

Nomenclatural type

Species *Aalborgiella aggregata*^{Ts}

Description

Genus of rod shaped bacteria found in activated sludge. Type species is *Aalborgiella aggregata*. Type species(*Aalborgiella aggregata*) is a rod shaped bacterium ($1.4 \pm 0.3 \times 0.4 \pm 0.1 \mu\text{m}$) abundant in activated sludge globally. Based on FISH analysis it seems to grow along filaments in activated sludge.

Based on genome-wide gene annotation it has the potential for full glycolysis, pentose phosphate pathway, citric acid cycle and glyoxylate pathway. It furthermore showed potential for transportation of branched amino acids.

Presence of *narGHI* genes showed potential to reduce nitrate.

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Burkholderiales* » *Burkholderiaceae* » *Aalborgiella*

References

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

Registry URL

<https://seqco.de/i:44101>

References

1. Petersen et al. (2025). Diversity and physiology of abundant Rhodospirillum species in global wastewater treatment systems. *Systematic and Applied Microbiology*.
[DOI:10.1016/j.syapm.2024.126574](https://doi.org/10.1016/j.syapm.2024.126574)