

Genus *Acidimicrobilacustris*

Etymology

[A.ci.di.mi.cro.bi.la.cus'tris] **N.L. neut. n.** *Acidimicrobium*, the genus *Acidimicrobium*, in reference to the order Acidimicrobiales; **L. masc. adj.** *lacustris*, of a lake, pond, pool; **N.L. masc. n.** *Acidimicrobilacustris*, a freshwater genus of Acidimicrobiales

Nomenclatural type

Species *Acidimicrobilacustris europaeus*^{Ts}

Description

Type genus of *Acidimicrobilacustridaceae* also known as “acIV-D Actinobacteria” or “uncultured Microtrichales” from 16S rRNA gene analyses and as g_F1-20-MAGs160 in GTDB, that is commonly found in freshwater environments. Consisting of two species, *Acidimicrobilacustris thunensis* (GCA_965194345.1) and *Acidimicrobilacustris europaeus* (GCA_965194515.1), both isolated from freshwater lakes. Type species is *Acidimicrobilacustris thunensis* TE-7 (GCA_965194345.1). The closest cultivated relative is *Rhabdothermincola salaria* (GCF_021246445.1), with an average amino acid identity of 66.55% and an average nucleotide identity of 71.1%. Current GTDB (R220) classification: d_Bacteria; p_Actinomycetota; c_Acidimicrobiia; o_Acidimicrobiales; f_UBA8139; g_F1-20-MAGs160.

Classification

Bacteria » *Actinomycetota* » *Acidimicrobiia* » *Acidimicrobiales* » *Acidimicrobilacustridaceae* » *Acidimicrobilacustris*

References

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

Registry URL

<https://seqco.de/i:48715>

References

1. Salcher et al. (2025). Bringing the uncultivated microbial majority of freshwater ecosystems into culture. *Nature Communications*. [DOI:10.1038/s41467-025-63266-9](https://doi.org/10.1038/s41467-025-63266-9)