

Species *Sciscionella sediminilitoris*

Etymology

[se.di.mi.ni.li'to.ris] L. neut. n. *sedimen*, sediment; L. neut. n. *litus*, the seashore, beach; N.L. gen. neut. n. *sediminilitoris*, of sediment of the seashore

Nomenclatural type

Strain: DSM 46824 = S E31 = TBRC 5134

Reference Strain

[DSM 46824](#) = S E31 = [TBRC 5134](#)

Description

Good growth on AF/MS agar, Bennett agar supplemented with mannitol and soybean flour, ISP 2 agar, ISP 3 agar and Waksman agar. Scant growth on ISP 4 agar. The substrate mycelial colour is beige or yellow-white. The white aerial spore mass is scantily produced on Bennett agar supplemented with mannitol and soybean flour and Waksman agar. No soluble pigment. Temperature tolerance for growth from 20 to 42 °C. Salinity tolerance for growth from 0–14 ‰, while pH growth tolerance from pH 5.0–9.0. Optimum growth at 28 °C, salinity 2–5 ‰ NaCl and pH 7. The growth on glucose, D-fructose, D-galactose, glycerol, maltose, D-mannitol, D-rhamnose, L-rhamnose, D-sorbitol, sucrose, D-trehalose, D-xylose as the sole carbon source, but not L-arabinose, myo-inositol and D-sorbose. Cells contain *meso*-diaminopimelic acid in the cell wall peptidoglycan. Whole-cell sugars consist of arabinose, galactose, glucose, rhamnose and ribose. The polar lipids consist of aminolipid, diphosphatidylglycerol, glycolipid, hydroxyphosphatidymethylethanolamine, phosphatidylglycerol and phosphatidylmethylethanolamine. The predominant menaquinone is MK-9(H4). The major cellular fatty acid is iso-C16:0.

The type strain is SE31 (= DSM 46824 = TBRC 5134), which was isolated from intertidal sediment collected from Cape Rachado, Malaysia. The genome sequence of the type strain comprised 7.4 Mbp with 68.7 % G+C content.

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Pseudonocardiales* » *Pseudonocardiaceae* » *Sciscionella* » *Sciscionella sediminilitoris*

References

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

Registry URL

<https://seqco.de/i:24080>

References

1. Teo et al. (2024). *Sciscionella sediminilitoris* sp. nov., a Marine Actinomycete Isolated from Cape Rochado, Malaysia, and the Emendations to the Description of the Genus *Sciscionella*. *Current Microbiology*. [DOI:10.1007/s00284-024-03634-8](https://doi.org/10.1007/s00284-024-03634-8)