Pararhizobium mangrovi

Submitted by Van Lill, Melandre

Species *Pararhizobium mangrovi*

Etymology

[man.gro'vi] **N.L. gen. n.** *mangrovi*, of mangrove, where the bacterium was isolated

Nomenclatural type

NCBI Assembly: GCF_006516965.1 [Ts]

Reference Strain

Strain sc|0039563: BGMRC 6574 = KCTC 72636 = CGMCC 1.16783

Description

Cells are motile, Gram-stain-negative, and flagellated short rods measuring approximately 0.3–0.6 × 0.6–0.9 μm. Colonies appear round, convex, and smooth with light pink color on ISP2 agar plates. Oxidase and catalase are positive. Growth occurs at 25–37 °C (optimum, 28 °C), pH 5.0–10.0 (optimum, pH 7.0), and 3.0–8.0% (w/v) NaCl (optimum, 3%). In API 20E tests, strain BGMRC 6574T was positive for citrate utilization test, VP test, gelatin liquefaction, glucose fermentation, rhamnose, arabinose, oxidase, and NO2. The API ZYM system of enzyme detection revealed that the isolated strain is positive for alkaline phosphatase, esterase (C4), esterase lipase (C8), lipase (C14), leucine arylamidase, valine arylamidase, cystine arylamidase, trypsin, chymotrypsin, acid phosphatase, naphthol-ASBI-phosphohydrolase, α-galactosidase, β-galactosidase, β-glucuron, α-glucanase, and β-glucosidase. In the API 50CH, strain BGMRC 6574T produced acid from D-gentiobiose and ferric citrate of aesculin. The other carbon sources did not produce acid or ferment in new strain. The major cellular fatty acid is C19:0 cyclo *ω8c*. The predominant respiratory quinone is ubiquinone-10. The major polar lipids are a single phosphatidylcholine (PC), seven unidentified phospholipids (PL3–7), three unidentified ninhydrin-positive phospholipids (NPL1–3), and two unidentified lipids (L1–2). The DNA G+C content of the type strain is 64.7 mol%.

The type strain is BGMRC 6574T (=KCTC 72636T = CGMCC 1.16783), isolated from mangrove stems collected from Hainan province, China. The GenBank/EMBL/DDBJ accession numbers for the 16S rRNA gene and genome sequences of strain BGMRC 6574T are MN006421 and VHLH00000000, respectively.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Rhizobiaceae* » *Pararhizobium* » *Pararhizobium mangrovi*

References

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

Registry URL

https://seqco.de/i:49631

References

1. Li et al. (2021). Pararhizobium mangrovi sp. nov., Isolated From Aegiceras corniculatum Stem. *Current Microbiology*. DOI:10.1007/s00284-021-02434-8

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:tcuj7d0e** submitted by **Van Lill, Melandre** and including 1 new name has been successfully validated.

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