Phyllobacterium pellucidum

Submitted by Van Lill, Melandre

Species *Phyllobacterium pellucidum*

Etymology
[pel.lu'ci.dum] **L. neut. adj.** *pellucidum*, transparent

Nomenclatural type
NCBI Assembly: GCF_013327855.1 [Ts]

Reference Strain
Strain sc|0040536: BT25 = KCTC 62765 = NBRC 114381

Description
The bacteria cells are 1.8–2.0 µm in length and 1.2–1.3 µm in width, Gram-negative, rod-shaped, and produce white-colored colonies when grown on R2A at 25 °C for 3 days. Growth occurs at 15–37 °C. Growth is observed at pH values of 5.0–8.0 and NaCl concentrations up to 2% (w/v). Catalase and oxidase are positive. In API 20NE test, the BT25T strain is positive for arginine dihydrolase, urease, and gelatin hydrolysis; weakly positive for assimilation of d-glucose, l-arabinose, d-mannose, d-mannitol, *N*-acetyl-d-glucosamine, and l-malate. In the API ZYM test, the BT25T strain is weakly positive for leucine arylamidase, acid phosphatase, and naphthol-AS-BI-phosphohydrolase, but negative for other enzyme activities. The major cellular fatty acids are summed feature 8 (C18:1 *ω7c*/C18:1 *ω6c*), cyclo-C19:0 *ω8c*, and C16:0. Menaquinone Q-10 is the predominant respiratory quinone. Phosphatidylethanolamine, phosphatidylmonomethylethanolamine, phosphatidylglycerol, phosphatidylcholine, an unidentified phospholipid, and an unidentified aminolipid are present in polar lipid profile. The whole-genome sequence of the isolate contains 4,660,625 bp with a 59.1% G + C content. The BT25T strain (KCTC = 62765T, NBRC = 114381T) was isolated from a soil sample in South Korea (37°51′29.2″ N 127°08′38.0″ E). The NCBI GenBank/EMBL/DDBJ accession numbers for the BT25T 16S rRNA gene sequence is MN658537.

Classification
Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Phyllobacteriaceae* » *Phyllobacterium* » *Phyllobacterium pellucidum*

References
Effective publication: Park et al., 2021 [1]

Registry URL
https://seqco.de/i:49633

References

1. Park et al. (2021). Phyllobacterium pellucidum sp. nov., isolated from soil. *Archives of Microbiology*. DOI:10.1007/s00203-021-02205-w

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:ohfkumi1** submitted by **Van Lill, Melandre** and including 1 new name has been successfully validated.

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