Blastopirellula sediminis sp. nov.

Submitted by Chintalapati, Venkata Ramana

Species *Blastopirellula sediminis*

Etymology
[se.di.mi′nis] L. gen. n. *sediminis*, of sediment

Nomenclatural type
NCBI Assembly: GCA_020966755.1 [Ts]

Reference Strain
JC732

Description
Cells are oval, round, or pear-shaped with cream-coloured pigmentation, and size varying from 1.2–1.6 X 0.9–1.1 µm. Cells divide by budding and grow at a range of 20–30 °C (optimum 30 °C), pH 6.0–9.0 (optimum pH 7.0), and NaCl concentrations of 1–4% (optimum 2%). Catalase and oxidase positive. Vitamin B12 is not required for growth. The predominant fatty acids are C18: 1ω9c and C16: 0. Polyamines include sym-homospermidine, putrescine, and two unidentified polyamines. The type genome material is obtained from the reference strain *Blastopirellula sediminis* JC732. The genomic G + C content of the type strain is 58.9% and the genome size is 7.1 Mb.

The 16S rRNA gene and genome accession number of reference strain JC732 is HG996462 and JAJKFT000000000, respectively. Strain JC733 is an additional strain of the species with the 16S rRNA gene accession number HG996480 and genome accession number JAJKFU000000000.

Classification
Bacteria » *Planctomycetota* » *Planctomycetia* » *Pirellulales* » *Pirellulaceae* » *Blastopirellula* » *Blastopirellula sediminis*

References
Effective publication: Sreya et al., 2023 [1]

Registry URL
https://seqco.de/i:32824

References

1. Sreya et al. (2023). Blastopirellula sediminis sp. nov. a new member of Pirellulaceae isolated from the Andaman and Nicobar Islands. *Antonie van Leeuwenhoek*. DOI:10.1007/s10482-023-01818-z

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:du78m-se** submitted by **Chintalapati, Venkata Ramana** and including 1 new name has been successfully validated.

Date of Priority: 2024-01-19 06:19 UTC
DOI: 10.57973/seqcode.r:du78m-se