

## Species *Roseiconus lacunae*

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### Etymology

[la.cu'nae] L. gen. n. *lacunae*, of a lagoon

### Nomenclatural type

[NCBI Assembly: GCA\\_008312935.1](#)<sup>TS</sup>

### Reference Strain

JC635 = [KCTC 72164](#) = [NBRC 113875](#)

### Description

Colour of chemotrophically grown culture is light pink. Cells are motile with lophotrichous flagella. NaCl is obligate for growth and tolerates up to 5% (w/v) with optimum growth at 3%. Optimum pH and temperature for growth are 8.0 (range 6.0–9.0) and 30 °C (range 10–35 °C), respectively. Growth factors are not required for growth. D-glucose, fructose, mannose, maltose, sucrose, starch, D-xylose, lactose, D-galactose and rhamnose are good carbon sources/electron donors for supporting its growth. Ammonium sulphate, peptone, L-serine, DL-threonine, L-leucine and DL-alanine, L-isoleucine, L-phenylalanine, L-glutamic acid and L-aspartic acid are utilized as nitrogen sources for its growth. Major fatty acids are C18:1 $\omega$ 9c, C16:0 and anteiso-C13:0. Minor fatty acids include C10:0 3-OH, C12:0, C11:0 3-OH, C14:0, anteiso-C15:0, C16:1 $\omega$ 7c/C16:1 $\omega$ 6c, C17:0, C17:1 $\omega$ 8c, anteiso-C17:0, C18:0, C18:1 $\omega$ 7c/C18:1 $\omega$ 6c, anteiso-C12:0, C16:0 3-OH, anteiso-C16:0, anteiso-C17:1 A and C18:3 $\omega$ 6,9,12c. Polyamines are 1,2-diaminopropane, cadaverine, spermidine, putrescine, and two unidentified polyamines. Polar lipids are phosphatidylethanolamine (PE), phosphatidylcholine (PC), unidentified amino lipids (AL 1), and one unidentified lipid (L1). Genomic DNA G + C content is 55.1 mol%. The reference strain JC635 (= KCTC 72164 = NBRC 113875) was isolated from Chilika lagoon, India (19° 51' 15N, 85° 21' 19E).

### Classification

*Bacteria* » *Planctomycetota* » *Planctomycetia* » *Pirellulales* » *Pirellulaceae* » *Roseiconus* » *Roseiconus lacunae*

### References

Effective publication: Kumar et al., 2021 [1]  
Assigned taxonomically: Kumar et al., 2021 [1]

### Registry URL

<https://seqco.de/i:32094>

## References

1. Kumar et al. (2021). Descriptions of *Roseiconus nitratireducens* gen. nov. sp. nov. and *Roseiconus lacunae* sp. nov. *Archives of Microbiology*. [DOI:10.1007/s00203-020-02078-5](https://doi.org/10.1007/s00203-020-02078-5)