

## Species *Roseiconus nitratireducens*<sup>Ts</sup>

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### Etymology

[ni.tra.ti.re.du'cens] N.L. masc. n. *nitras*, nitrate; L. pres. part. *reducens*, reducing; N.L. part. adj. *nitratireducens*, nitrate-reducing

### Nomenclatural type

[NCBI Assembly: GCA\\_008629675.1](#)<sup>Ts</sup>

### Reference Strain

JC645 = [KCTC 72174](#) = [NBRC 113879](#)

### Description

Colour of chemotrophically grown culture is pink. Motility could not be demonstrated. NaCl is obligate for growth and can tolerate up to 7% (w/v) NaCl. Optimum pH and temperature for growth are 8.0 (range 7.0–9.0) and 30°C (range 10–35 °C), respectively. D-Glucose, fructose, mannose, maltose, sucrose, starch, D-xylose, rhamnose, pyruvate and inulin are good carbon sources for supporting growth. Ammonium sulphate, peptone, L-serine, DL-threonine, L-leucine, DL-alanine, cysteine, L-glutamine, L-proline and urea can be used as nitrogen sources for growth. Major fatty acids are C18:1 $\omega$ 9c and C16:0. 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, C15:0 2-OH, C19:0 and C20:1 $\omega$ 9c and C18:3 $\omega$ 6,9,12c. Cadaverine, putrescine and an unidentified polyamine (UN1) are the polyamines. Genomic DNA G + C content is 60 mol%. The reference strain JC645 (= KCTC 72174 = NBRC 113879) was isolated from Chilika lagoon, India (19° 51' 15N, 85° 21' 19E).

### Classification

*Bacteria* » *Planctomycetota* » *Planctomycetia* » *Pirellulales* » *Pirellulaceae* » *Roseiconus* » *Roseiconus nitratireducens*<sup>Ts</sup>

### References

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

### Registry URL

<https://seqco.de/i:32092>

## 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)