

Denitratimonas tolerans gen. nov. sp. nov.

Submitted by Rasmussen, Ejnar

Genus *Denitratimonas*

Etymology

[De.ni.tra.ti.mo'nas] **L. pref.** *de-*, away from; **N.L. masc. n.** *nitras*, nitrate; **L. fem. n.** *monas*, a unit, monad; **N.L. fem. n.** *Denitratimonas*, an isolate that reduces nitrate

Nomenclatural type

Species *Denitratimonas tolerans*^{Ts}

Description

Han et al., 2016: Cells are Gram-staining-negative, non-spore-forming, slightly curved-rods that are non-motile. Aerobic. The predominant quinone is ubiquinone Q-8. The predominant cellular fatty acids (>10 %) are iso-C15:0, iso-C17:1 ω 9c, iso-C11:0 and iso-C11:0 3OH. Polar lipids are phosphatidylethanolamine, phosphatidylmonomethylethanolamine, diphosphatidylglycerol, phosphatidylglycerol and unidentified aminophospholipids. The genus is a member of the family *Xanthomonadaceae*, class *Gammaproteobacteria*. The type species is *Denitratimonas tolerans*.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Lysobacterales* » *Lysobacteraceae* » *Denitratimonas*

References

Effective publication: Han et al., 2016 [1]

Registry URL

<https://seqco.de/i:37180>

Species *Denitratimonas tolerans*^{Ts}

Etymology

[to'le.rans] **L. fem. part. adj.** *tolerans*, bearing/tolerating, as the bacterium endures stress conditions

Nomenclatural type

NCBI Assembly: [GCA_037203605.1](https://ncbi.nlm.nih.gov/assembly/GCA_037203605.1)^{Ts}

Reference Strain

Strain scj0041710: KACC 17565 ([Cat.](#)) = NCAIM B 025327

Description

Han et al., 2016: Description is as for the genus plus the following. After 3–5 days of incubation on NA at 30 °C, colonies are round, brown-pigmented, 1.4–2.6 mm in diameter with entire margins. Growth occurs at pH 3–12 (optimum, pH 6–7), 10–42 °C (optimum, 30 °C) and 0–12 % NaCl (optimum, 1 %). Catalase-negative and oxidase-positive. Nitrate is reduced. The DNA G+C content of the type strain is 65.6 ± 0.8 mol%.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Lysobacterales* » *Lysobacteraceae* » *Denitratimonas* » *Denitratimonas tolerans*^{Ts}

References

Effective publication: Han et al., 2016 [1]
Assigned taxonomically: Han et al., 2016 [1]

Registry URL

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References

1. Han et al. (2016). *Denitratimonas tolerans* gen. nov., sp. nov., a denitrifying bacterium isolated from a bioreactor for tannery wastewater treatment. *Antonie van Leeuwenhoek*.
[DOI:10.1007/s10482-016-0678-5](https://doi.org/10.1007/s10482-016-0678-5)

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:cpzsb8s6** submitted by **Rasmussen, Ejnar** and including 2 new names has been successfully validated.

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