

Rhizobium oryzihabitans

Submitted by Van Lill, Melandre

Species *Rhizobium oryzihabitans*

Etymology

[o.ry.zi.ha.bi'tans] L. fem. n. *oryza*, rice; L. pres. part. *habitans*, inhabiting, dwelling; N.L. neut. part. adj. *oryzihabitans*, rice inhabiting

Nomenclatural type

[NCBI Assembly: GCF_010669145.1](#)^{Ts}

Reference Strain

[Strain scI0039559](#): M15 = ACCC 60121 = [JCM 32903](#)

Description

Cells are Gram-negative, aerobic, flagellate and rods. Colonies are circular and cream-white on YMA at 30 °C. Growth occurs from 15 °C to 50 °C and the pH range for growth is 5.0–12.0. The tolerant of NaCl concentrations is up to 7.0% (w/v). Positive reactions for nitrate reduction, aesculin hydrolysis, urease and nitro-D-methyl galactose activities, and assimilation of glucose, arabinose, mannose, mannitol, *N*-acetyl-glucosamine, maltose, gluconate, malic acid, citric acid, phenylacetic acid are positive. Catalase and oxidase positive. The following compounds utilize as carbon sources: *N*-acetyl-D-galactosamine, *N*-acetyl-D-glucosamine, adonitol, L-arabinose, D-arabitol, D-cellobiose, D-fructose, L-fucose, D-galactose, gentiobiose, α -D-glucose, m-inositol, α -D-lactose, lactulose, maltose, D-mannitol, D-mannose, D-melibiose, β -methyl-D-glucoside, D-raffinose, L-rhamnose, D-sorbitol, sucrose, D-trehalose, turanose, xylitol, acetic Acid, D-galactonic acid lactone, D-gluconic Acid, α -keto glutaric acid, DL-lactic acid, propionic acid, quinic acid, succinic acid, D-alanine, L-alanine, L-alanyl-glycine, L-asparagine, L-aspartic acid, L-glutamic acid, L-histidine, hydroxy-L-proline, L-ornithine, L-proline, L-pyrroglutamic acid, L-serine, inosine, uridine, glycerol, glucose-1-phosphate, glucose-6-phosphate. The DNA G+C content of type strain is 59.28 mol %. Major cellular fatty acids are summed feature 8 (C18:1 ω 7c and/or C18:1 ω 6c) and Summed feature 2 (aldehyde-C12:0 and/or unknown equivalent chain length).

The type strain, M15T (= JCM 32903T = ACCC 60121T), was isolated from the root of rice.

The GenBank/The European Bioinformatics Institute EMBL-EBI (EMBL)/DNA Data Bank of Japan (DDBJ) accession numbers for the 16S rRNA, *recA*, *ropB* and *atpD* gene sequences of strain M15T are MT023790, MT028481, MT028482 and MT028483, respectively. The complete genome has been deposited in GenBank under the accession numbers of SAMN14048699.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Rhizobiaceae* » *Rhizobium* » *Rhizobium oryzihabitans*

References

Effective publication: Zhao et al., 2020 [1]

Registry URL

<https://seqco.de/i:38934>

References

1. Zhao et al. (2020). Isolation, Identification and Characterization of Endophytic Bacterium *Rhizobium oryzihabitans* sp. nov., from Rice Root with Biotechnological Potential in Agriculture. *Microorganisms*. [DOI:10.3390/microorganisms8040608](https://doi.org/10.3390/microorganisms8040608)

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:nojfpkk5 submitted by **Van Lill, Melandre** and including 1 new name has been successfully validated.

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