

Stenotrophomonas raiganjensis sp. nov.

Submitted by Mondal, Rittick

Species *Stenotrophomonas raiganjensis*

Etymology

[ra.i.gan.jen'sis] **N.L. fem. adj.** *raiganjensis*, pertaining to Raiganj, a town in West Bengal, India, where the nomenclatural type was isolated

Nomenclatural type

[NCBI Assembly: GCA_030658505.2](#)^{Ts}

Reference Strain

[Strain sc|0040360](#): RAC2 = MCM-B-1506

Description

Cells are Gram-staining-negative, aerobic, rod-shaped, and motile. Colonies were generally circular, off-white to cream in color, with smooth and entire margins. They exhibited slightly raised to convex elevation, moist to butyrous consistency, and an opaque appearance. The average colony size was approximately 0.5–0.6 cm after incubation under the specified growth conditions. Growth occurs at 20–40 °C (optimum, 35 °C), pH 5–12 (optimum, pH 9), and in the presence of up to 3% (w/v) NaCl. Strain RAC2^T can utilize lactose, xylose, fructose, dextrose, sucrose, and malonate as carbon sources but not galactose. The major cellular fatty acids are iso-C15:0 (24.56%), anteiso-C15:0 (14.27%), and summed feature 3 (16:1 ω7c/16:1 ω6c; 11.18%). The nomenclatural type, RAC2^T (=MCM-B-1506), was isolated from the hemolymph of infected *Bombyx mori* L. collected from the sericultural field of Raiganj University, West Bengal, India. The genome of the nomenclatural type is characterized by a size of 4.6 Mbp and the genomic G + C content of 66.5%.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Lysobacterales* » *Lysobacteraceae* » *Stenotrophomonas* » *Stenotrophomonas raiganjensis*

References

Effective publication: Mondal et al., 2026 [1]

Registry URL

<https://seqco.de/i:52934>

References

1. Mondal et al. (2026). *Stenotrophomonas raiganjensis* sp. nov., an extensively drug-resistant bacterium isolated from *Bombyx mori* L., described under the SeqCode. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2026.126699

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:ait0ios3** submitted by **Mondal, Rittick** and including 1 new name has been successfully validated.

Date of Priority: 2026-03-02 05:18 UTC
DOI: 10.57973/seqcode.r:ait0ios3

