

Species *Kaistia cartagenensis*

Etymology

[car.ta.ge.nen'sis] N.L. fem. adj. *cartagenensis*, pertaining to Cartagena de Indias, the city close to Baru Island, where the mangrove soil samples were collected

Nomenclatural type

[NCBI Assembly: GCA_963966455.1](#)^{TS}

Description

A species established on the basis of MiGA taxonomic novelty analyses, ANI, AAI, 16S rRNA gene phylogenetic reconstruction, phylogenomic tree, and the type material is the genome MAG11_P8. The MAG was reconstructed from PET-transforming bacterial consortium and encoded for a putative PET hydrolase. In addition, genes involved in PET-monomers catabolism were found within the MAG.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Kaistiaceae* » *Kaistia* » *Kaistia cartagenensis*

References

Effective publication: Jiménez et al., 2024 [1]

Registry URL

<https://seqco.de/i:43934>

References

1. Jiménez et al. (2024). Engineering the mangrove soil microbiome for selection of polyethylene terephthalate-transforming bacterial consortia. *Trends in Biotechnology*. [DOI:10.1016/j.tibtech.2024.08.013](https://doi.org/10.1016/j.tibtech.2024.08.013)