

*Pseudomonas aestus* nov. sp. from mangrove sediments: a gluconic acid and betaine producer

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Because of the environmental problems from global warming, the search for microorganisms that promote plant growth under drought and salt conditions is becoming inevitable. A Gram negative bacterium, resistant to 1M salt, gluconic acid and betaine producer and plant growth promoter was isolated from the Brazilian coast mangroves. By the phylogenetic analysis of the 16S rRNA, the strain was included in the taxonomic group of *Pseudomonas*. Hybridization with type strains and biochemical tests indicate that *Pseudomonas* strain is a new species. Thus, the name *Pseudomonas aestus* nov. sp. was proposed and the strain deposited in Embrapa Environment culture collection with the access code CMAA1215.

**Keywords:** salt resistant, plant growth promoter bacteria, osmotic stress

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