

Promicromonospora umidemergens sp. nov., isolated from moisture from indoor wall material.

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Abstract

A Gram-positive, yellow-pigmented, branched-hyphae-forming micro-organism, strain 09-Be-007(T), was isolated from the wall of an indoor environment. Based on 16S rRNA gene sequence similarity studies, strain 09-Be-007(T) belonged to the genus *Promicromonospora*. The novel isolate showed sequence similarities of 98.8 % to *Promicromonospora aerolata* V54A(T), 98.9 % to *Promicromonospora vindobonensis* V45(T), 98.1 % to *Promicromonospora sukumoe* DSM 44121(T), 98.2 % to *Promicromonospora kroppenstedtii* RS16(T), 96.7 % to *Promicromonospora flava* CC 0387(T) and 97.8 % to *Promicromonospora citrea* DSM 43110(T), the type strain of the type species of this genus. Cell wall sugars of strain 09-Be-007(T) were galactose, rhamnose and glucose. The diagnostic diamino acid of the cell-wall peptidoglycan was lysine. The major menaquinones detected were MK-9(H(4)) and MK-9(H(6)). Major polar lipids were diphosphatidylglycerol, phosphatidylglycerol and phosphatidylinositol. Major fatty acids were iso-C(15 : 0) and anteiso-C(15 : 0); moderate amounts of anteiso-C(17 : 0), iso-C(16 : 0) and iso-C(15 : 1) were also found. All these data supported the affiliation of strain 09-Be-007(T) to the genus *Promicromonospora*. DNA-DNA hybridization values and physiological and biochemical

data enabled strain 09-Be-007(T) to be differentiated genotypically and phenotypically from the six recognized species of the genus *Promicromonospora*. For these reasons, strain 09-Be-007(T) represents a novel species, for which the name *Promicromonospora umidemergens* sp. nov. is proposed, with 09-Be-007(T) (=DSM 22081(T)=CCM 7634(T)) as the type strain.

Beteiligte Forschungseinheiten

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