

Mesorhizobium argentiipisi sp. nov.

Submitted by SeqCode user emuema

Species *Mesorhizobium argentiipisi*

Etymology

[ar.gen.ti.i.pi'si] **L. neut. n.** *argentum*, silver; **N.L. gen. n.** *pisi*, of a pea; **N.L. gen. n.** *argentiipisi*, of the silver pea, referring to the common name, Silver pea, of *Calobota sericea*.

Nomenclatural type

[NCBI Assembly: GCA_037179585.1](#) ^{Ts}

Reference Strain

[Strain sc|0038732](#): Cs1330R2N1

Description

It is gram a negative, rod-shaped, and motile bacteria. The colony morphology is white to creamy colour, often with a circular or irregular form that is elevated. Able to tolerate a pH range between 4 and 10. Grows well at < 0.5% NaCl concentration but can also have reduced growth at both 1% and 1.5% NaCl concentration. Can grow at temperature ranges between 15° to 37° with an optimum growth at 28 °C. The strain tested positive for the activity of nitrate reduction to nitrite, arginine dehydrogenase, urease, β -galactosidase, and β -glucosidase but not tryptophan deaminase. Utilizes Potassium gluconate, trisodium citrate, dextrin, D-maltose, D-trehalose, D-cellubiose, D-gentiobiose, sucrose, D-turanose, α -D-lactose, D-melibiose, β -methyl-D glucoside, D-salicin, N-acetyl-D glucosamine, N-acetyl- β -D mannosamine, N-acetyl-D galactosamine, α -D-glucose, D-mannose, D-fructose, D-galactose, 3-methyl glucose, D-fucose, L-fucose, L-rhamnose, D-sorbitol, D-mannitol, D-arabitol, inositol, glycerol, D-glucose6-PO₄, D-fructose6-PO₄, D-aspartic acid, gelatin, Glycyl-L-proline, L-alanine, L-arginine, L-aspartic acid, L-glutamic acid, L-histidine, L-pyroglutamic acid, pectin, D-galacturonic acid, L-galactonic acid, lactone, D-gluconic acid, D-glucuronic acid, glucuronamide, mucic acid, quinic acid, D-saccharic acid, , methyl pyruvate, D-lactic acid methyl ester, L-lactic acid, citric acid, α -keto-glutaric acid, D-malic acid, L-malic acid, bromo-succinic acid, tween 40, γ -Amino-butyric acid, α -hydroxy-butyric acid, β -Hydroxy-D, L-Butyric acid, acetoacetic acid, propionic acid, acetic acid, formic acid as sole source of carbon, but not L-arabinose, capric acid, adipic acid, stachyose, D-raffinose, N-acetyl neuraminic acid, inosine, D-serine, L-serine or P-Hydroxyphenyl acetic acid. Sensitive to erythromycin, ampicillin, gentamicin, kanamycin, chloramphenicol, tetracycline spectinomycin, neomycin, penicillin and streptomycin. Resistant to Ni, Zn, Pb, Co, Mn, and Cu.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Phyllobacteriaceae* » *Mesorhizobium* » *Mesorhizobium argentiipisi*

Registry URL

<https://seqco.de/i:44137>