

Species *Actinoalloteichus caeruleus*

Etymology

[cae.ru'le.us] L. masc. adj. *caeruleus*, like the sky, dark blue, azure

Nomenclatural type

Strain: ATCC 27421 = BCRC 13659 = CBS 645.72 = CCRC 13659 = DSM 40103 = IFO 13344 = IMET 40622 = IPV 930 = ISP 5103 = JCM 4014 = JCM 4730 = NBRC 13344 = NRRL B-1623 = NRRL B-2194 = NRRL ISP-5103 = RIA 1305 = RIA 755 = VKM Ac-1918

Description

Basonym: *Streptomyces caeruleus* (Baldacci 1944) Pridham et al. 1958 (Approved Lists 1980) emend. Nouioui et al. 2018.

Heterotypic synonym: *Actinoalloteichus cyanogriseus* Tamura et al. 2000 (nomenclatural type of the genus *Actinoalloteichus* Tamura et al. 2000).

Gram-positive, non-acid-fast, aerobic organisms with branching hyphae. Forms spore chains on the aerial mycelia which may either be straight or flexuous (rectiflexibles). The aerial and substrate mycelia tend to fragment. Good growth occurs at 20–37 °C. The vegetative mycelia are brown to grey in colour and the aerial mycelia are blue to grey. Black soluble pigment is produced on some media. No growth at 15 or 45 °C. Cell walls contain glutamic acid, glucosamine, alanine and meso-diaminopimelic acid. Ribose, mannose, galactose and glucose are detected in whole-cell sugars. Anteiso-C17 : 0, iso-C15 : 0, iso-C16 : 0 and anteiso-C15 : 0 are present as major cellular fatty acids. The major menaquinone is MK-9(H4) and small amounts of MK-8(H4) and MK-9(H2) are also present. Phosphatidylethanolamine and phosphatidylmonomethylethanolamine are present as diagnostic phospholipids. The acyl type of the cell wall polysaccharides is acetyl.

The type strain for *Actinoalloteichus caeruleus* (Pridham et al. 1958) is NBRC (formerly IFO) 13344 (=DSM 40103=ISP 5103=JCM 4014=NRRL B-2194). The G+C content of the genome is 72.5 % and genome size is 6.03 Mbp. *Actinoalloteichus caeruleus* (Pridham et al. 1958) has the later heterotypic synonym *Actinoalloteichus cyanogriseus* Tamura et al. 2000, the type strain NBRC (formerly IFO) 14455 (=AS 4.1159= DSM 43889=JCM 6095). The G+C content of the genome is 72.5 % and genome size is 5.97 Mbp.

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Pseudonocardiales* » *Pseudonocardiaceae* » *Actinoalloteichus* » *Actinoalloteichus caeruleus*

References

Effective publication: Teo et al., 2021 [1]

Registry URL

<https://seqco.de/i:23447>

References

1. Teo et al. (2021). Taxonomic note on the family Pseudonocardiaceae based on phylogenomic analysis and descriptions of *Allosaccharopolyspora* gen. nov. and *Halosaccharopolyspora* gen. nov. *International Journal of Systematic and Evolutionary Microbiology*. DOI:10.1099/ijsem.0.005075