

Name: ***Streptomyces minutiscleroticus***

Authors: (Thirumalachar 1965) Pridham 1970

Status: Approved Lists

Reference(s): Int. J. Syst. Bacteriol. 30:392 (AL)

Risk group: 1 (German classification)

Type strain: ATCC 17757, CBS 662.72, IFO 13361, ISP 5301, RIA 1322, DSM 40301

Synonym(s): *Chainia minutisclerotica* (objective synonym)
Streptomyces flaviscleroticus
(heterotypic synonym)

Author(s) Lanoot, B., Vancanneyt, M., Van Schnoor, A., Liu, Z., Swings, J.

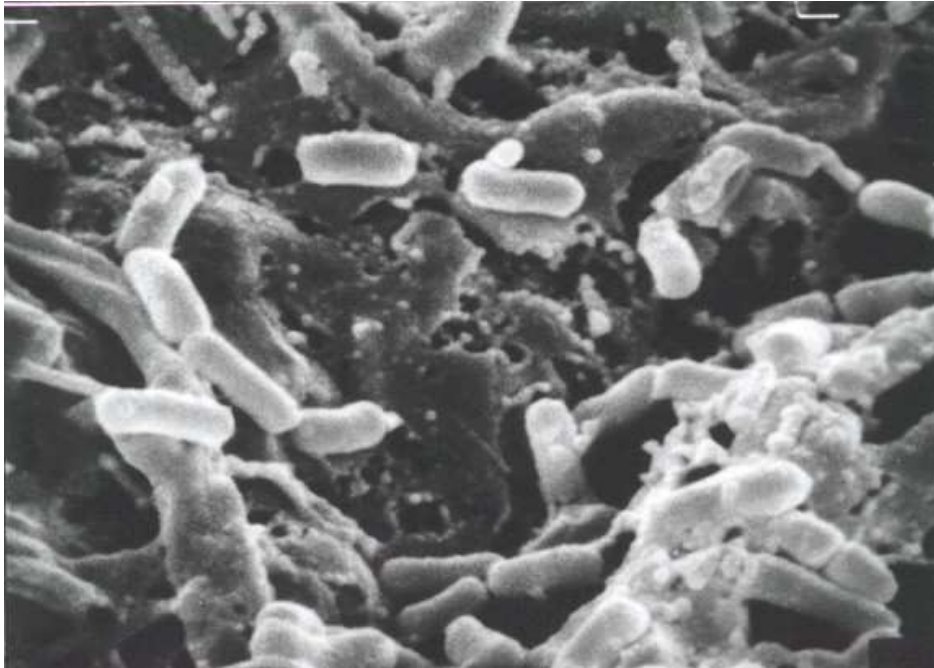
Title Reclassification of *Streptomyces nigrifaciens* as a later synonym of *Streptomyces flavovirens*; *Streptomyces citreofluorescens*, *Streptomyces chrysomallus* subsp. *chrysomallus* and *Streptomyces fluorescens* as later synonyms of *Streptomyces anulatus*; *Streptomyces chibaensis* as a later synonym of *Streptomyces corchorusii*; *Streptomyces flaviscleroticus* as a later synonym of *Streptomyces minutiscleroticus*; and *Streptomyces lipmanii*, *Streptomyces griseus* subsp. *alpha*, *Streptomyces griseus* subsp. *cretosus* and *Streptomyces willmorei* as later synonyms of *Streptomyces microflavus*.

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Streptomyces minutiscleroticus
Smooth spore surface in SEM (x 10.000)

Genus: *Streptomyces*

FH 2043

Species: *minutiscleroticus*

Numbers in other collections: DSM 40301

Morphology:

| | | |
|--------------|-------|--------|
| | G | R |
| <u>ISP 2</u> | good | brown |
| | A | SP |
| | white | brown |
| | G | R |
| <u>ISP 3</u> | good | yellow |
| | A | SP |
| | grey | brown |
| | G | R |
| <u>ISP 4</u> | good | yellow |
| | A | SP |
| | grey | yellow |
| | G | R |
| <u>ISP 5</u> | good | yellow |
| | A | SP |
| | grey | yellow |
| | G | R |
| <u>ISP 6</u> | A | SP |
| | G | R |
| <u>ISP 7</u> | A | SP |

Spore chains: RF

Spore surface: smooth

Sporangia:

Fragmentation:

Melanoid pigment: -

NaCl resistance: 2,5 %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 30°C

Carbon utilization:

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ara | Suc | Xyl | Ino | Man | Fru | Rha | Raf | Cel |
| + | + | - | - | - | + | - | + | - | - |

Enzymes:

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| Gel | Cit | Ure | Arg | Onp | Trp | Lys | Odc | VP | Ind | H2S |
| + | - | - | - | + | - | - | - | + | - | - |

Comments: Former *Chainia minutisclerotica*, formation of sclerotia



Streptomyces minutiscleroticus

A and B – Agar plates medium 5006, 5265 and 5315



Streptomyces minutiscleroticus

C and D – Microplate with ISP- and melanin media

Name:

Streptomyces flaviscleroticus

Authors: Goodfellow et al. 1986

Status: New Species

Reference(s): Int. J. Syst. Bacteriol. 36:574 (validation list)

Risk group: 1 (German classification)

Type strain: ATCC 19347, IFO 12998, IMET 43617, ISP 5270,
JCM 3100, KCC A-0100, NCIB 11008, RIA 883,
DSM 40270

Synonym(s): *Streptomyces minutiscleroticus*
Chainia minutisclerotica

Genus: *Streptomyces*

FH 6358

Species: *flaviscleroticus*

Numbers in other collections: DSM 40270

Morphology:

| | | |
|--------------|------|--------------|
| <u>ISP 2</u> | G | R |
| | good | olive brown |
| | A | SP |
| <u>ISP 3</u> | none | none |
| | G | R |
| | good | zinc yellow |
| <u>ISP 4</u> | A | SP |
| | none | none |
| | G | R |
| <u>ISP 5</u> | good | honey yellow |
| | A | SP |
| | none | none |
| <u>ISP 6</u> | G | R |
| | good | ivory |
| | A | SP |
| <u>ISP 7</u> | none | none |
| | G | R |
| | good | sand yellow |
| | A | SP |
| | none | none |
| | G | R |
| | good | nut brown |
| | A | SP |
| | none | brown beige |

Spore chains:

Spore surface:

Sporangia: -

Fragmentation: -

Melanoid pigment: - +- -

NaCl resistance: %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 28 °C

Carbon utilization:

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ara | Suc | Xyl | Ino | Man | Fru | Rha | Raf | Cel |
| + | + | (+) | (+) | (+) | + | + | + | (+) | (+) |

Enzymes:

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gel | Cit | Ure | Arg | Onp | Trp | Lys | Odc | VP | Ind | H2S |
| + | + | - | - | + | - | + | + | - | - | - |
| 2+ | 3+ | 4+ | 5+ | 6+ | 7+ | 8+ | 9+ | 10+ | 11+ | |
| 12+ | 13- | 14+ | 15- | 16+ | 17- | 18+ | 19+ | 20- | | |

Comments:



Streptomyces flaviscleroticus

A and B – Agar plates medium 5006, 5265 and 5315



Streptomyces flaviscleroticus

C and D – Microplate with ISP- and melanin media