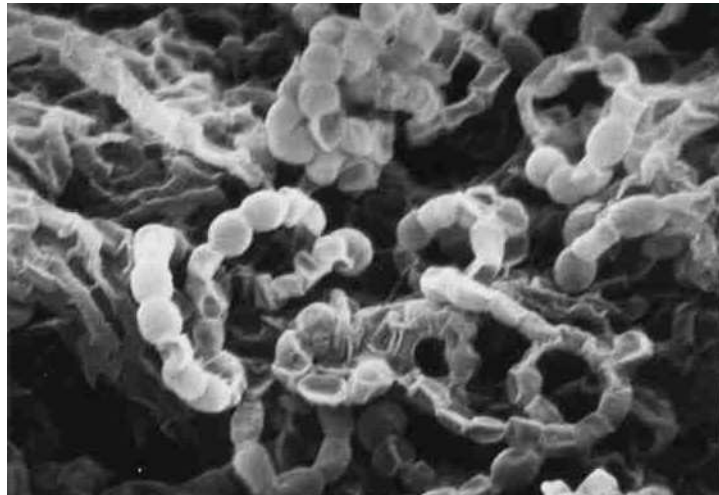


Name: *Streptomyces costaricanus*
Authors: Esnard et al. 1995
Status: New Species
Reference(s): Int. J. Syst. Bacteriol. 45:777
Risk group: 1 (German classification)
Type strain: ATCC 55274, CR-43, NRRL B-16897

Author(s) Esnard, J., Potter, T. L., Zuckermann, B. M.
Title *Streptomyces costaricanus* sp. nov., isolated from nematode-suppressive soil.
Journal Int. J. Syst. Bacteriol.
Volume 45
Page(s) 775-779
Year 1995



Streptomyces costaricanus
A – Smooth spores in SEM (x 7.500)

Genus: *Streptomyces*

FH 2877

Species: *costaricanus*

Numbers in other collections: ATCC 55274

Morphology:

| | | |
|--------------|--------------|--------------|
| | G | R |
| <u>ISP 2</u> | good | ocher brown |
| | A | SP |
| | oyster white | honey yellow |
| | G | R |
| <u>ISP 3</u> | good | beige |
| | A | SP |
| | none | green beige |
| | G | R |
| <u>ISP 4</u> | good | broom yellow |
| | A | SP |
| | oyster white | broom yellow |
| | G | R |
| <u>ISP 5</u> | good | broom yellow |
| | A | SP |
| | none | broom yellow |
| | G | R |
| <u>ISP 6</u> | good | broom yellow |
| | A | SP |
| | none | broom yellow |
| | G | R |
| <u>ISP 7</u> | good | broom yellow |
| | A | SP |
| | none | broom yellow |

Spore chains:

Rf

Spore surface: smooth

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 5 %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum-

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 costaricanus

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



Streptomyces costaricanus

D and E – Microplate with ISP- and melanin media