

Name: ***Streptosporangium fragile***

Authors: Shearer et al. 1983

Status: New Species

Literature: Int. J. Syst. Bacteriol. 33:367

Risk group: 1 (German classification)

Type strain: ATCC 31519, DSM 43847, SK&F-BC 2496

Author(s) Shearer, M. C., Colman, P. M., Nash III, C. H.

Title *Streptosporangium fragile* sp. nov.

Journal Int. J. Syst. Bacteriol.

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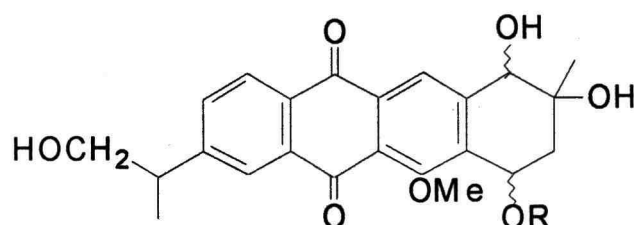
Year 1983

Fatty acid pattern:

13 : 0 Iso	3,0	17 : 0	6,5
14 : 0 Iso	3,0	16 : 0 2 OH	1,0
15 : 0	2,0	17 : 0 10methyl	9,0
16 : 0 Iso	12,0	18 : 1 cis 9	14,0
16 : 1 Cis 9	7,0	18 : 0	5,0
16 : 0	16,0		
16 : 0 10methyl	3,0		
17 : 1 Cis 9	14,0		

Secondary metabolites from *Streptosporangium fragile*

Fragilomycin, anthracycline antibiotic complex, shows high activity against gram-positive bacteria



R = unknown sugars

Genus: *Streptosporangium*

FH 2461

Species: *fragile*

Numbers in other collections: ATCC 31519

Morphology:

	G	R
<u>ISP 2</u>	good	chocolate brown
	A	SP
	sparse/white	none
	G	R
<u>ISP 3</u>	good	orange brown
	A	SP
	sparse/white	none
	G	R
<u>ISP 4</u>	good	chestnut brown
	A	SP
	white	none
	G	R
<u>ISP 5</u>	good	orange brown
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	chestnut brown
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	chestnut brown
	A	SP
	sparse/white	none

Spore chains:

Spore surface: smooth

Sporangia: +

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 2,5 %

Lysozyme resistance: -

pH: Value- Optimum-

Temperature : Value- Optimum- 30 °C

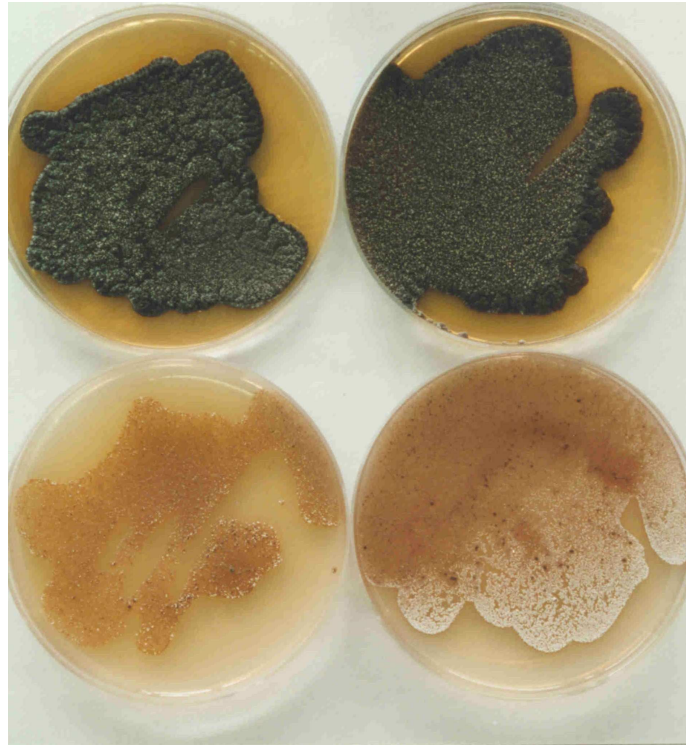
Carbon utilization:

Glu Ara Suc Xyl Ino Man Fru Rha Raf Cel

Enzymes:

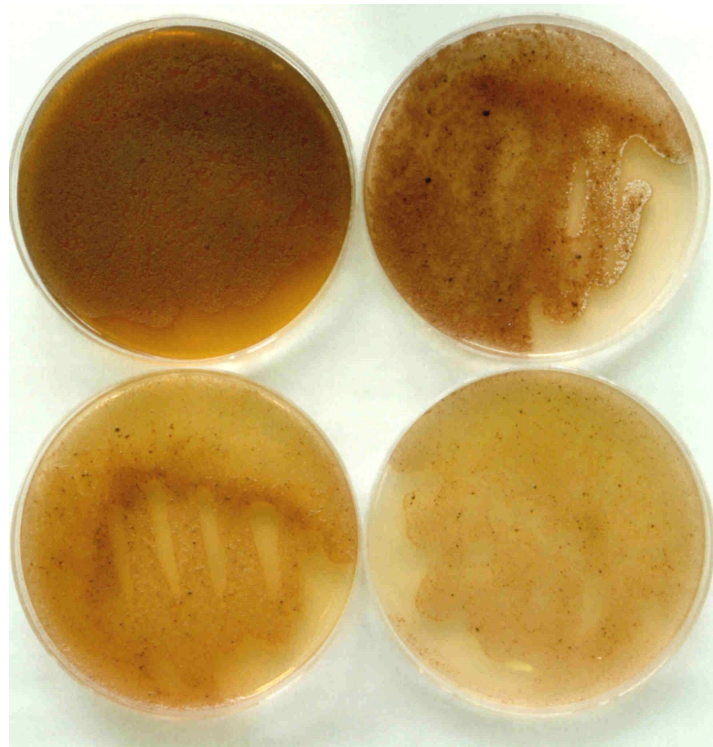
Gel Cit Ure Arg Onp Trp Lys Odc VP Ind H2S
+ + + + + - (+) + + - -

2+ 3+ 4+ 5- 6+ 7- 8- 9- 10- 11+ 12+ 13- 14+ 15- 16+ 17+ 18- 19- 20-



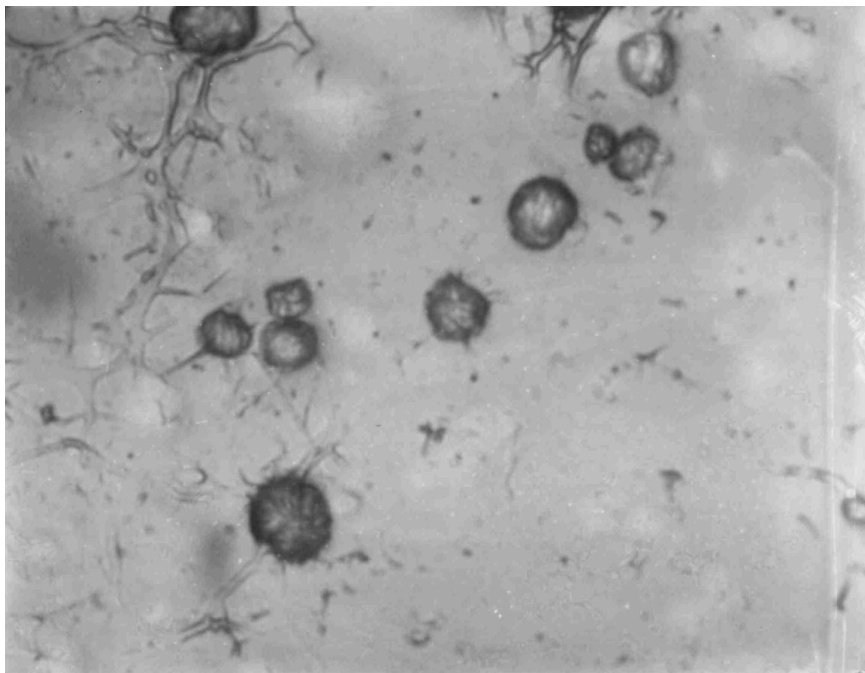
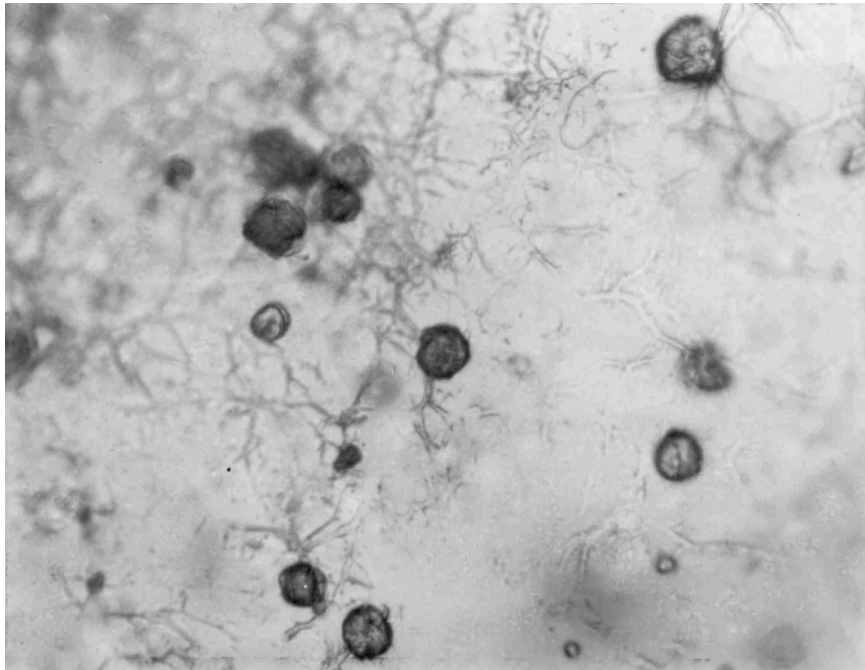
Streptosporangium fragile

A and B – Agar plates medium 5006, 5265, 5315 and 5323



Streptosporangium fragile

C and D – Agar plates medium 5318, 5322, 5337 with and without tyrosine



Streptosporangium fragile

E and F – Sporangia in Lightmicroscopy (x 640)