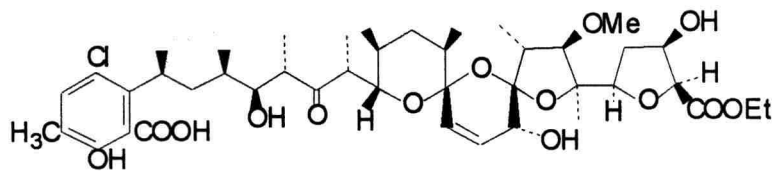


Name:	<i>Streptomyces malachitofuscus</i>
Authors:	Preobrazhenskaya and Terekhova 1986
Status:	New Species
Reference(s):	Int. J. Syst. Bacteriol. 36:574 (validation list)
Risk group:	1 (German classification)
Type strain:	ATCC 25471, IFO 13059, INA 739, ISP 5332, KCC S-0493, DSM 40332

Secondary metabolites from *Streptomyces malachitofuscus*
Polyether antibiotic, active against gram-positive bacteria and protozoa,
shows growth promoting activity



Genus: *Streptomyces*

FH 2511

Species: *malachitofuscus*

Numbers in other collections: ATCC 25471

Morphology:

<u>ISP 2</u>	G	R
	good	ochre brown
	A	SP
<u>ISP 3</u>	grey	none
	G	R
	good	yellow
<u>ISP 4</u>	A	SP
	white	none
	G	R
<u>ISP 5</u>	good	colorless
	A	SP
	sparse, white	none
<u>ISP 6</u>	G	R
	good	yellow
	A	SP
<u>ISP 7</u>	white	none
	G	R
	good	brown
	A	SP
	none	brown
	G	R
	good	black
	A	SP
	white	black

Spore chains: RF

Spore surface: warty /knobby

Sporangia:

Fragmentation:

Melanoid pigment: + + + -

NaCl resistance: 2,5 %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

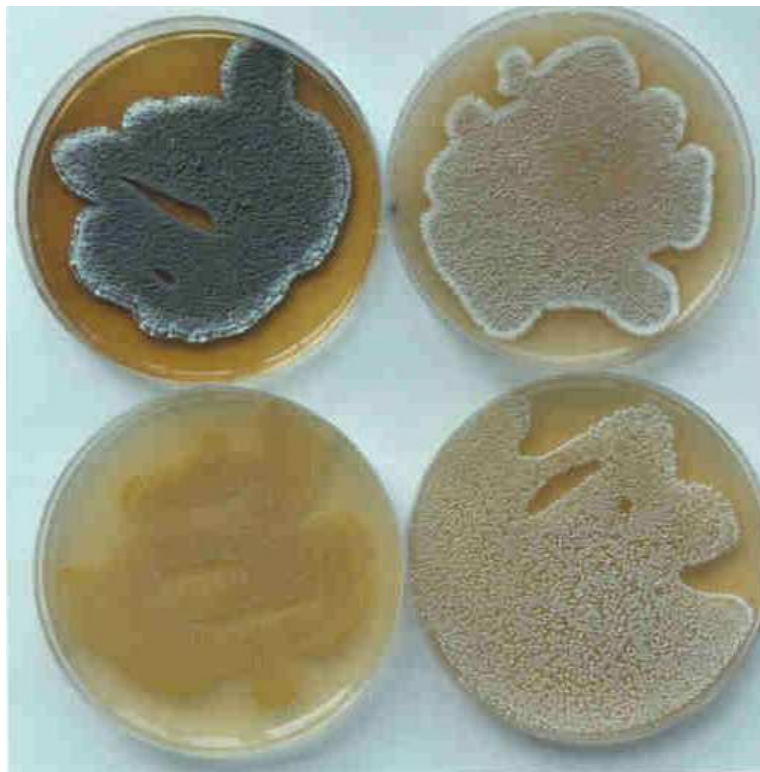
Carbon utilization:

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

Enzymes:

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

Comments:



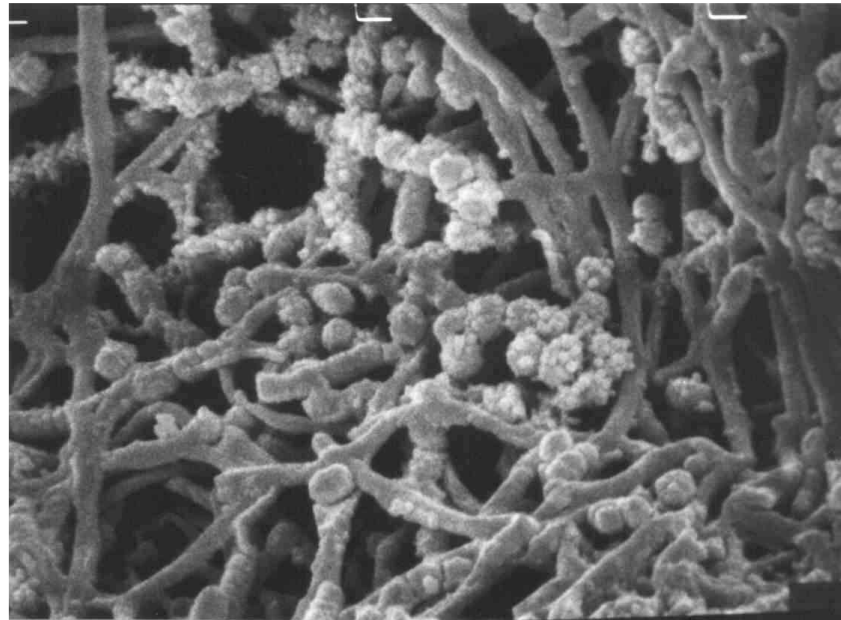
Streptomyces malachitofuscus

A and B –Agar plates medium 5265, 5315, 5317 and 5323



Streptomyces malachitofuscus

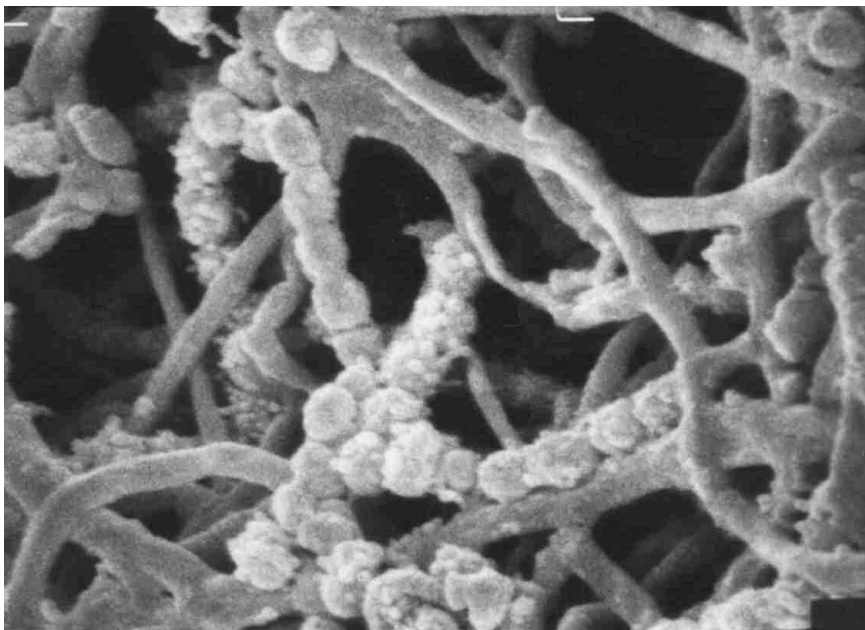
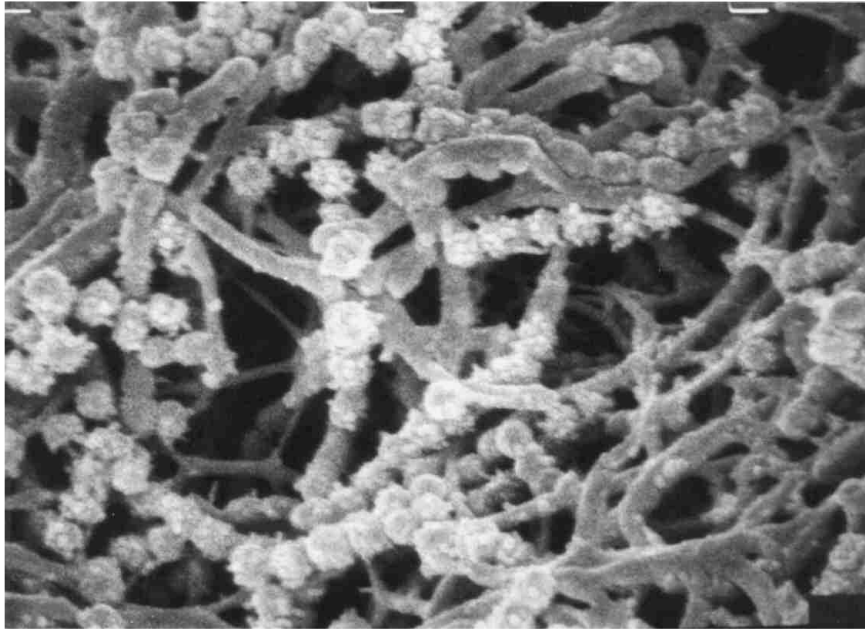
C and D – Agar plates medium 5006, 5318, 5322, 5337 with and without tyrosine



Streptomyces malachitofuscus

E – Microplate with carbon utilization

F – Spore chain morphology and spore surface in SEM (x 5.000)



Streptomyces malachitofuscus

Spore chain morphology and spore surface in SEM

F x 5.000 G x 7.500