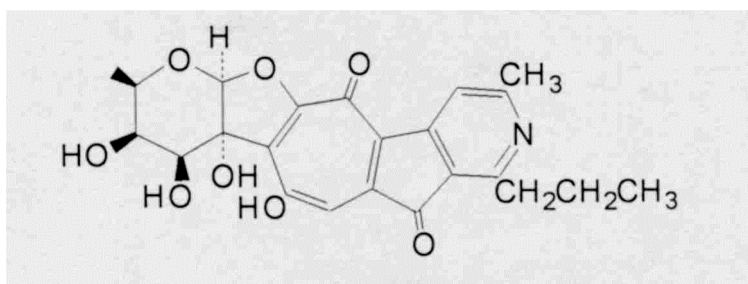


Name: *Streptomyces echinoruber*  
Authors: Palleroni et al. 1981  
Status: New Species  
Reference(s): Int. J. Syst. Bacteriol. 31:382 (validation list)  
Risk group: 1 (German classification)  
Type strain: NRRL 8144, X-14077, DSM 41696

Author(s) Palleroni, N. J., Reichelt, K. E., Mueller, D., Epps, R.,  
Tabenkin, B., Bull, D. N., Schuep, W., Berger, J.  
Title Production of a novel red pigment, rubrolone, by  
*Streptomyces echinoruber* sp. nov. I. Taxonomy,  
fermentation and partial purification.  
Journal J. Antibiot. (Tokyo)  
Volume 31  
Page(s) 1218-1225  
Year 1978

Author(s) Schülp, W., Blount, J. F., Williams, T. H., Stempel, A.  
Title Production of a novel red pigment, rubrolone by  
*Streptomyces echinoruber* sp. nov. II. Chemistry and  
structure elucidation.  
Journal J. Antibiot.  
Volume 31  
Page(s) 1226-1232  
Year 1978

Secondary metabolites from *Streptomyces echinoruber*  
Rubrolone, red pigment



**Genus:** *Streptomyces*

FH 2274

**Species:** *echinoruber*

**Numbers in other collections:** NRRL 8144

Morphology:

	G	R
<u>ISP 2</u>	good	red
	A	SP
	grey	none
	G	R
<u>ISP 3</u>	good	red
	A	SP
	grey	none
	G	R
<u>ISP 4</u>	good	red
	A	SP
	grey	none
	G	R
<u>ISP 5</u>	good	red
	A	SP
	white	none
	G	R
<u>ISP 6</u>	good	brown
	A	SP
	none	brown
	G	R
<u>ISP 7</u>	none	red
	A	SP
	grey	none

Spore chains: RA

Spore surface: spiny

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	H <sub>2</sub> S
+	-	-	+	+	+	-	-	+	-	-

**Comments:**



***Streptomyces echinoruber***

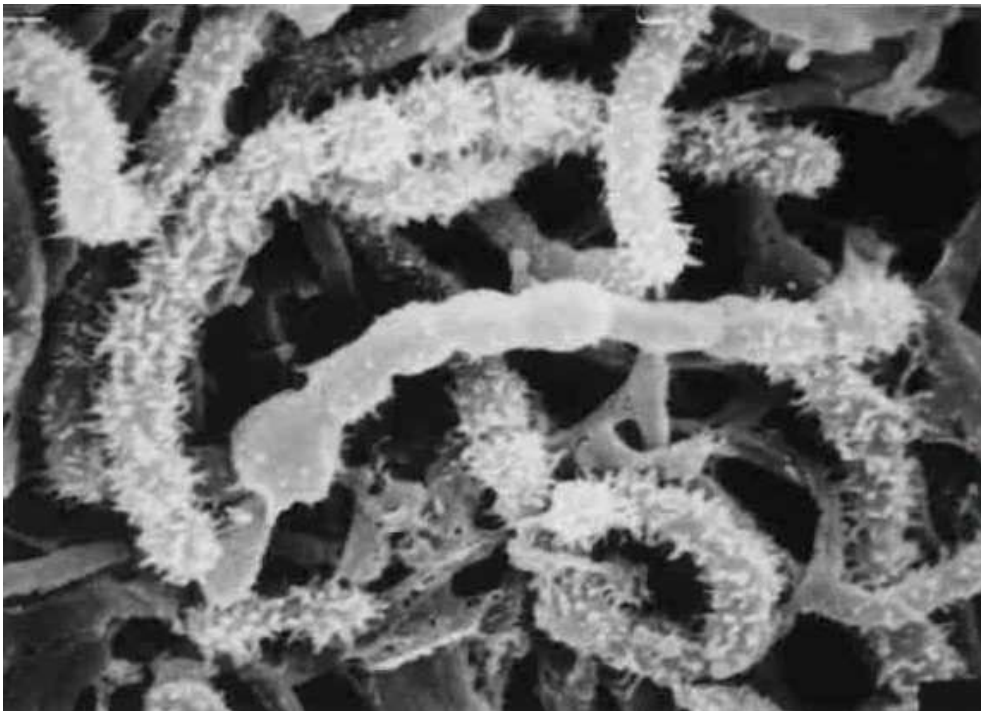
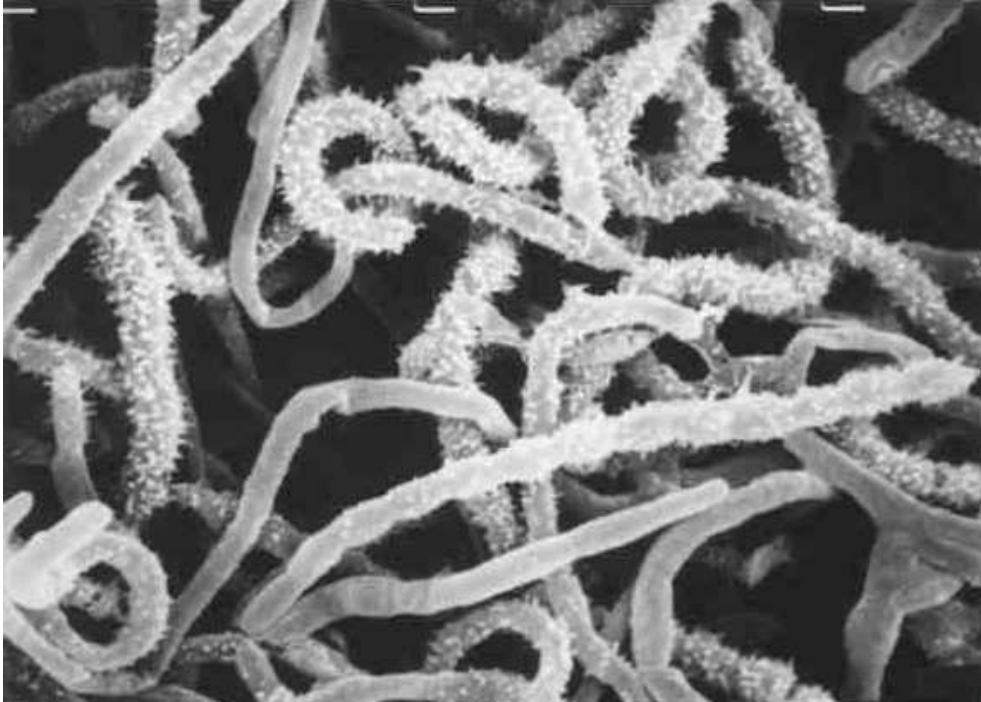
A and B – Agar plates medium 5006, 5265 and 5315



***Streptomyces echinoruber***

C and D – Microplate with ISP- and melanin media





***Streptomyces echinoruber***

Spore chain morphology and spore surface in SEM

E x 5.000 F x 7.500