

Name: ***Streptomyces violaceoruber***

Authors: (Waksman and Curtis 1916) Pridham 1970

Status: Approved Lists

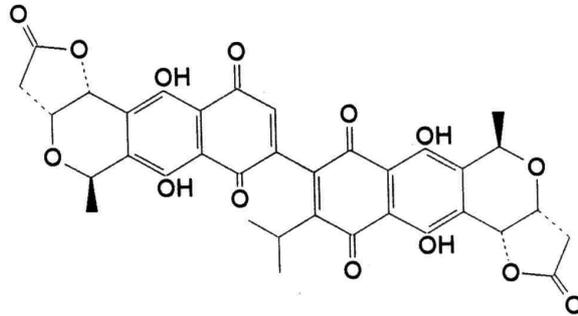
Reference(s): Int. J. Syst. Bacteriol. 30:404 (AL)

Risk group: 1 (German classification)

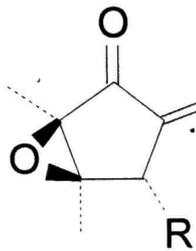
Type strain: ATCC 14980, IMET 40270, DSM 40049

Secondary metabolites of *Streptomyces violaceoruber*

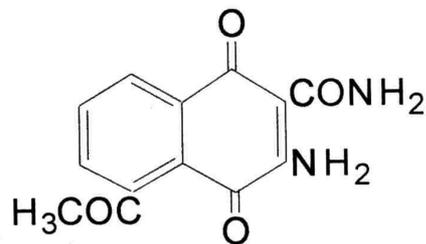
Actinorhodin, anthraquinone antibiotic



Methylenomycin A, active against gram-positive and -negative bacteria, useful as prostaglandin synthon



Sarubicin B, naphthoquinone antibiotic, active against gram-positive bacteria



**Genus:** *Streptomyces*

FH 2113

**Species:** *violaceoruber*

**Numbers in other collections:** IMET 40270

Morphology:

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

Spore chains: RA

Spore surface: smooth

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:



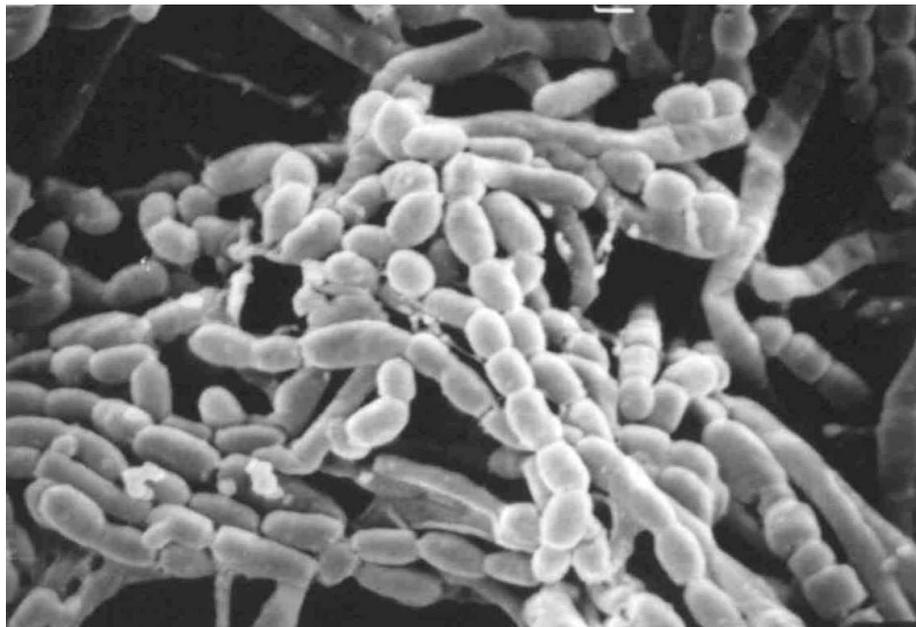
***Streptomyces violaceoruber***

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



***Streptomyces violaceoruber***

C and D – Microplate with ISP- and melanin media



***Streptomyces violaceoruber***

Spore chain morphology and spore surface in SEM  
E and F x 7.500