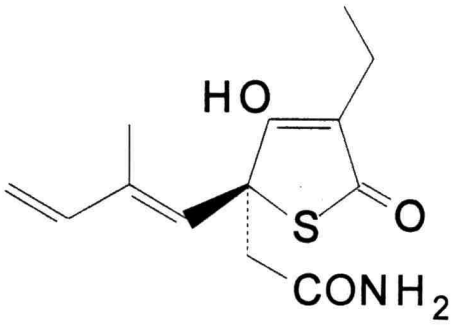
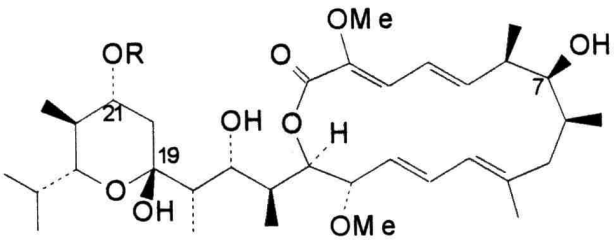
Name:	***Streptomyces olivaceus***
Authors:	(Waksman 1923) Waksman and Henrici 1948
Status:	Approved Lists
Reference(s):	Int. J. Syst. Bacteriol. 30:395 (AL)
Risk group:	1 (German classification)
Type strain:	ATCC 3335, IMET 40350, DSM 40072

Secondary metabolites from *Streptomyces olivaceus*

Thiophenacetamid with antibacterial activity

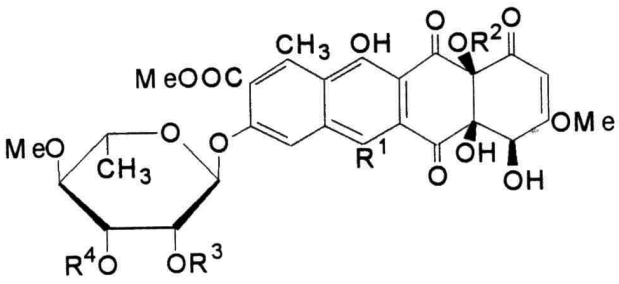


Bafilomycin A, macrolide antibiotic, active against gram-positive bacteria, yeasts and fungi



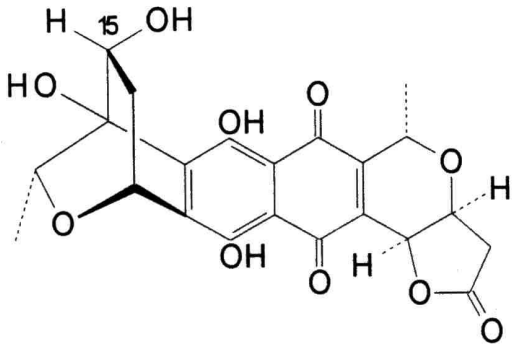
R = H

Elloramycin, anthracyclien antibiotic, active against gram positive bacteria and L1210 leukemia

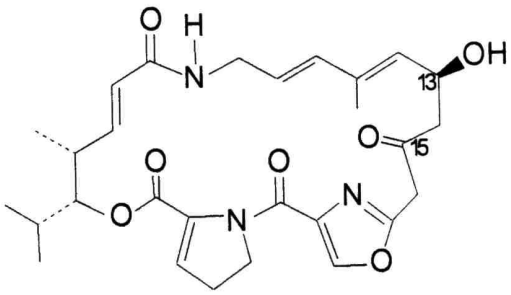


R^1= H, R^2 = R^3= R^4= CH_3

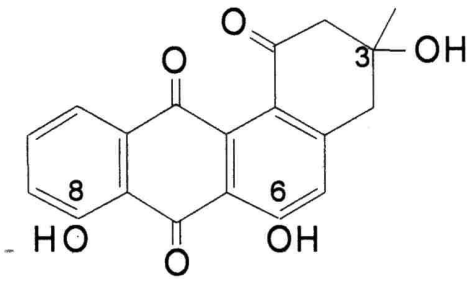
Granaticin, antineoplastic agent, inhibits RNA synthesis initiation step



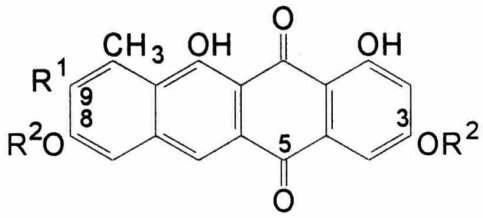
Ostreogrycin A, depsipeptide-type antibiotic, active against gram-positive bacteria



Rabelomycin, angucycline antibiotic, active against gram-positive and –negative bacteria

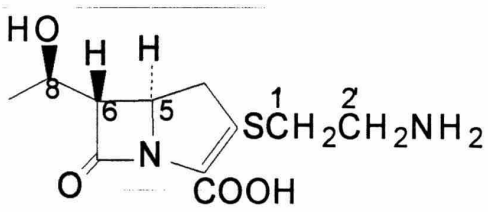


Tetracenomycin, anthraquinone antibiotic, show a weak antibacterial activity



$R^1 = R^2 = H$

Thienamycin, a member of the olivanic acid family of β-lactam antibiotics, active against gram-positive and gram-negative bacteria



Genus: ***Streptomyces*** **FH 2098**
Species: ***olivaceus***
Numbers in other collections: DSM 40702

Morphology:

	G	R
ISP 2	good	yellow
	A	SP
	yellow	none
	G	R
ISP 3	good	ivory
	A	SP
	white	none
	G	R
ISP 4	good	ivory
	A	SP
	yellow	none
	G	R
ISP 5	good	yellow
	A	SP
	grey	none
	G	R
ISP 6	good	ivory
	A	SP
	grey	reddish brown
	G	R
ISP 7	good	ivory
	A	SP
	grey	none

Spore chains: RF
Sporangia:

Spore surface: smooth
Fragmentation:

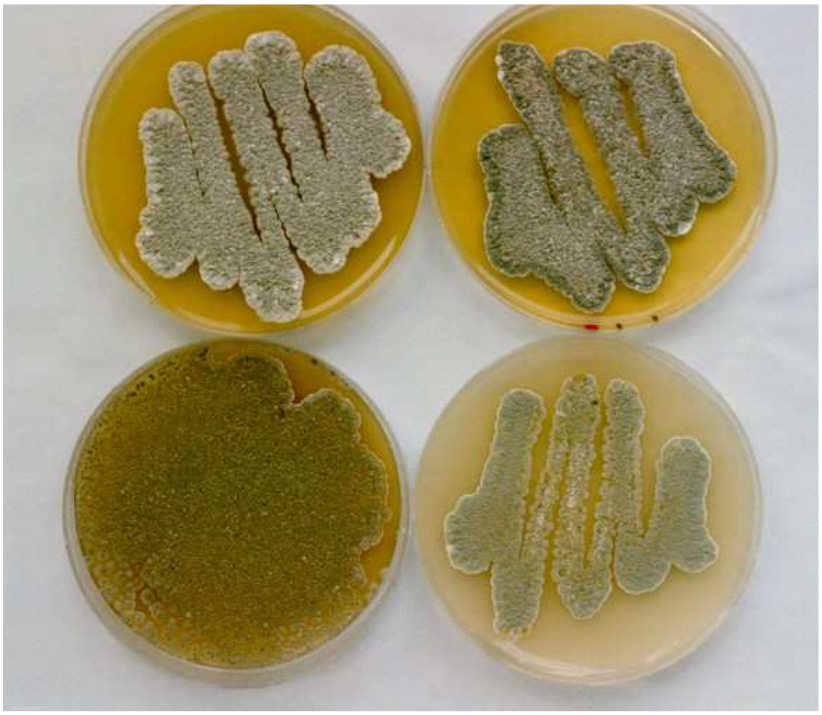
Melanoid pigment: +
NaCl resistance: 2,5 %
Lysozyme resistance:
pH: Value- Optimum-
Temperature : Value- Optimum- 30℃

Carbon utilization:

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

Enzymes:

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



Streptomyces olivaceus
A – Agar plates medium 5265, 5315, 5317 and 5323
B – Agar plates medium 5006, 5318, 5322, 5337 with and without tyrosine