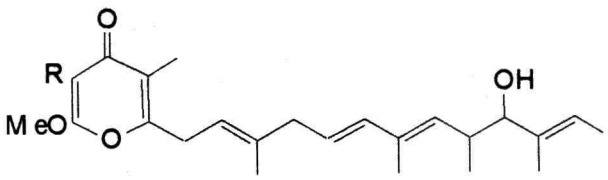
Name:	***Streptomyces pactum***
Authors:	Bhuyan et al. 1962
Status:	Approved Lists
Reference(s):	Int. J. Syst. Bacteriol. 30:395 (AL)
Risk group:	1 (German classification)
Type strain:	ATCC 12434, IMET 43357, NRRL 2939, DSM 40530

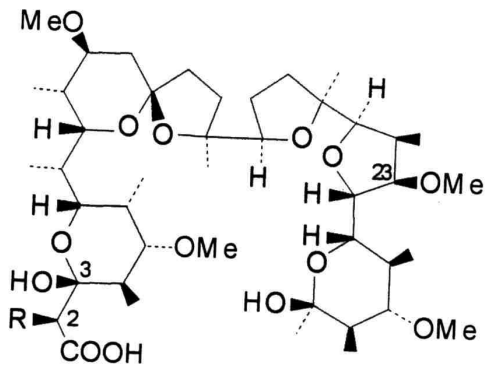
Secondary metabolites of *Streptomyces pactum*

Actinopyrones, exhibing coronary vasodilating activities and are weakely active against gram-positive bacteria and dermatophytes



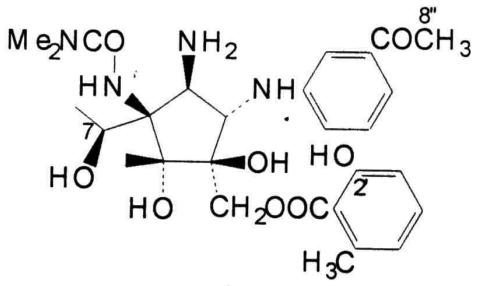
Actinopyrone A R = CH_3
Actinopyrone B R = H
Actinopyrone C R = CH_2CH_3

Lonomycin A, polyether antibiotic, ionophore and protozoacide

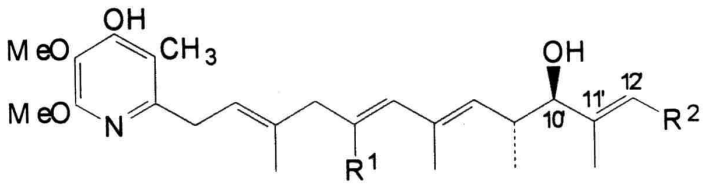


R = CH_3

Pactamycin, shows activity against gram-positive and –negative bacteria and shows antineoplastic activity



Piericidin A, pyridine antibiotic family, inhibits NADH oxidase of ox-heart mitochondria in absence of bovine serum albumen, shows also insecticidal activity



Piericidin A_1, R^1 = H, R^2 = CH_3
A_2, R^1 = R^2 = CH_3
A_3, R^1 = H, R^2 = $CH(CH_3)_2$
A_4, R^1 = CH_3, R^2 = $CH(CH_3)_2$

Genus: Streptomyces **FH 2018**
Species: pactum
Numbers in other collections: IMET 43357

Morphology:

	G	R
ISP 2	good	grey
	A	SP
	beige	beige
	G	R
ISP 3	good	colorless
	A	SP
	sparse	none
	G	R
ISP 4	good	beige
	A	SP
	grey	beige
	G	R
ISP 5	good	beige
	A	SP
	grey	none
	G	R
ISP 6	good	colorless
	A	SP
	none	none
	G	R
ISP 7	good	beige
	A	SP
	grey beige	none

Spore chains: RAb Spore surface: smooth
Sporangia: Fragmentation:

Melanoid pigment: - - - -
NaCl resistance:
Lysozyme resistance:
pH: Value- Optimum-
Temperature : Value- Optimum- 28 ℃

Carbon utilization:

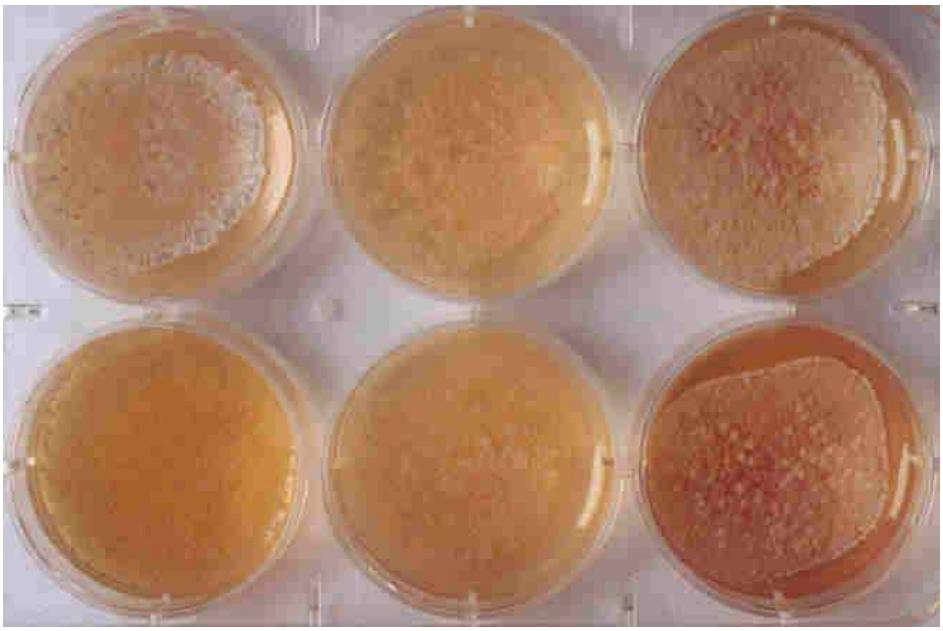
Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	-	-	-	-	-	-	-	-	-

Enzymes:

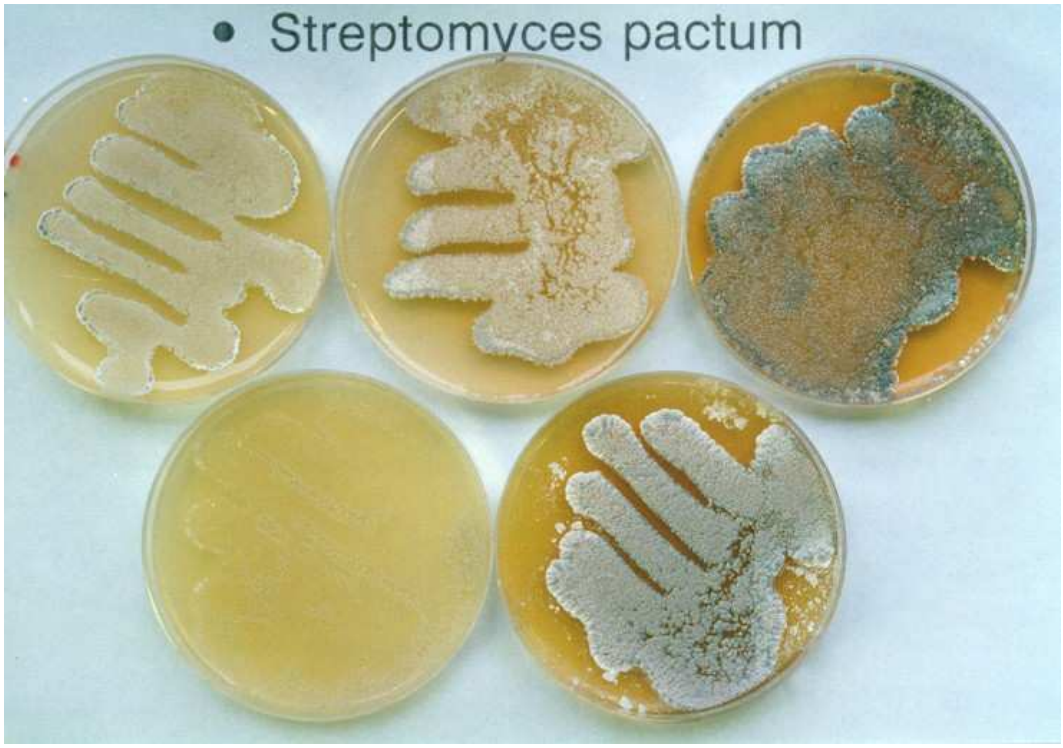
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	-	+	+	+	-	+	+	-	-	-

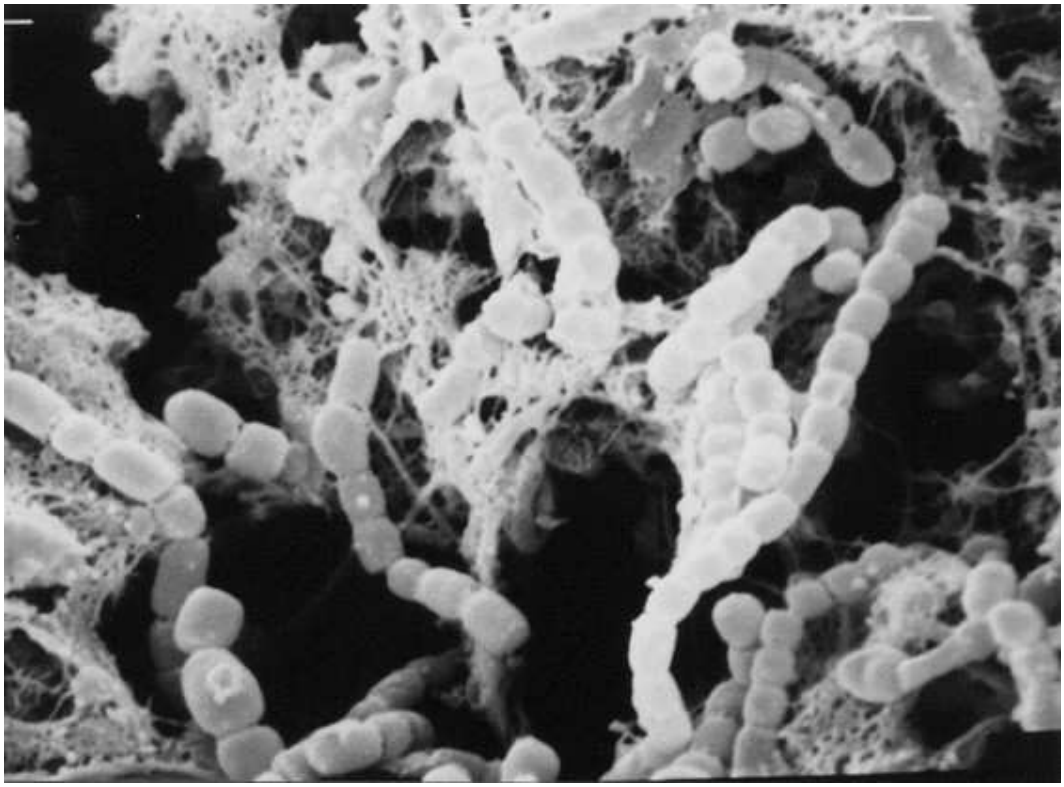
Comments:

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



Streptomyces pactum
C and D – Microplate with ISP- and melanin media





Streptomyces pactum

E – Agar plates medium 5315, 5317, 5323, 5318 and 5322

F – Spore chain morphology and spore surface in SEM (x 10.000)