

Name: ***Actinoplanes deccanensis***
Authors: Parenti et al. 1975
Status: Approved Lists
Literature: Int. J. Syst. Bacteriol. 30:244 (AL)
Risk group: 1 (German classification)
Type strain: ATCC 21983, DSM 43806, IMET 9256,
KCC A-0247

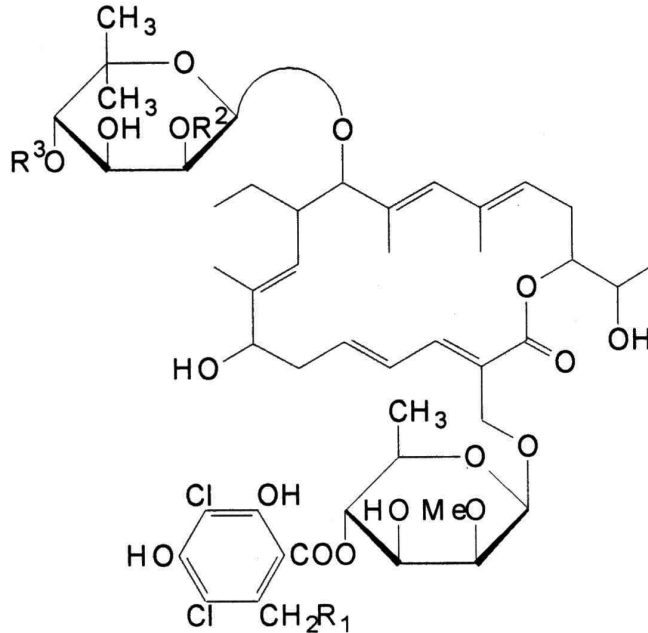
Author(s) Parenti, F., Pagani, H., Beretta, G.
Title Lipiarmycin, a new antibiotic from *Actinoplanes*. I. Description
of the producer strain and fermentation studies.
Journal J. Antibiot. (Tokyo)
Volume 28
Page(s) 247-252
Year 1975

Fatty acid pattern:

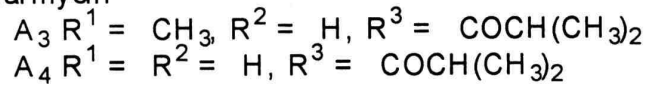
14 : 0 Iso	2,0		
15 : 0 Iso	20,0	18 : 1 cis 9	5,0
15 : 0 Anteiso	9,0	18 : 0	6,0
15 : 0	1,0		
16 : 0 Iso	24,0		
16 : 1 cis 9	3,0		
16 : 0	4,0		
17 : 0 Iso	5,0		
17 : 0 Anteiso	10,0		
17 : 1 cis 9	3,0		
16 : 0 Iso 2OH	3,0		
17 : 0	2,0		

Secondary metabolites from *Actinoplanes deccanensis*

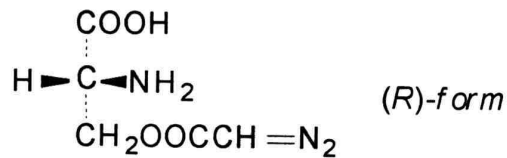
Lipiarmycin A, macrolide antibiotic complex, active against gram-positive bacteria



Lipiarmycin



Azaserine, amino acid antibiotic, glutamine antagonist which inhibits purine biosynthesis, antifungal and antineoplastic agent



Genus: *Actinoplanes*

FH 2235

Species: *deccanensis*

Numbers in other collections: ATCC 21983

Morphology:

	G	R
<u>ISP 2</u>	good	dahlia yellow
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	pastel yellow
	A	SP
	none	none
	G	R
<u>ISP 4</u>	good	pastel yellow
	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	pastel yellow
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	pastel yellow
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	pastel yellow
	A	SP
	none	red

Spore chains:

Spore surface: smooth

Sporangia: +

Fragmentation:

Melanoid pigment: - - + -

NaCl resistance: 0 - 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 ₂ S
+	+	-	-	+	-	-	-	+	-	-
2+	3+	4+	5-	6+	7-	8-	9+	10+	11+	12+
13+	14+	15+	16+	17+	18+	19+	20-			

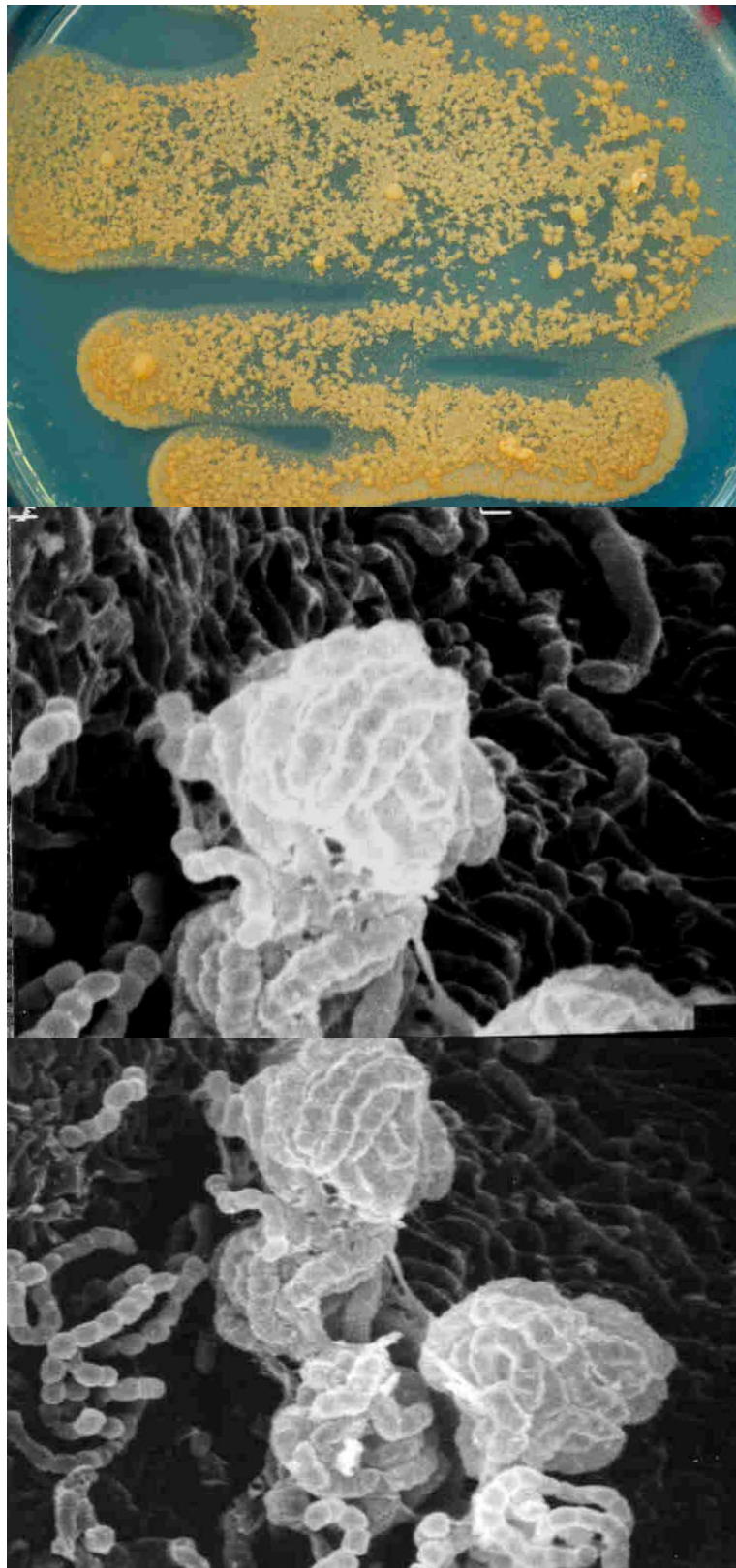
Comments:



Actinoplanes deccanensis

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

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



Actinoplanes deccanensis

C – Colony detail on medium 5317

D and E – Sporangia and spores in SEM

D x 7.500 E x 5.000