

Name: ***Actinoplanes missouriensis***
Authors: Couch 1963
Status: Approved Lists
Literature: Int. J. Syst. Bacteriol. 30:244 (AL)
Risk group: 1 (German classification)
Type strain: ATCC 14538, DSM 43046, IMET 9249

Author(s) Couch, J. N.
Title Some new genera and species of the *Actinoplanaceae*.
Journal J. Elisha Mitchell Sci. Soc.
Volume 79
Page(s) 53-70
Year 1963

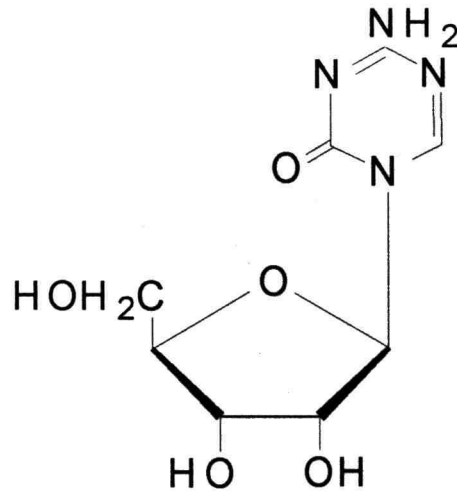
Fatty acid pattern:

14 : 0 Iso	3,0		
14 : 0	2,0		
15 : 0 Iso	11,0	18 : 1 cis 9	9,0
15 : 0 Anteiso	9,0	18 : 0	10,0
15 : 0	3,0		
16 : 0 Iso	17,0		
16 : 1 cis 9	4,0		
16 : 0	9,0		
17 : 0 Iso	6,0		
17 : 0 Anteiso	8,0		
17 : 1 cis 9	3,0		
17 : 0	6,0		

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Secondary metabolites from *Actinoplanes missouriensis*

Azacytidine, nucleoside antibiotic, inhibits pyrimidine biosynthesis, antineoplastic agent, used to treat acute non-lymphoblastic leukaemia



Actinoplanes missouriensis
Colony detail on medium 5323

Genus: *Actinoplanes*

FH 2233

Species: *missouriensis*

Numbers in other collections: ATCC 14538

Morphology:

	G	R
<u>ISP 2</u>	good	pastel yellow
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	brown
	A	SP
	none	brown
	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	salmon red
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	salmon red
	A	SP
	none	none

Spore chains:

Spore surface: smooth

Sporangia: +

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 0 - 2,5 %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

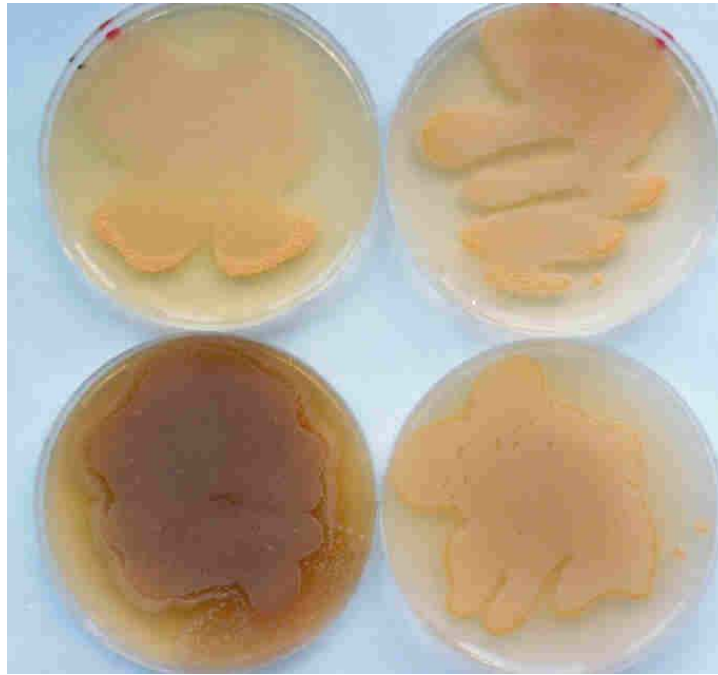
Carbon utilization:

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

Enzymes:

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S								
+	+	-	-	+	-	-	-	+	-	-								
2+	3+	4+	5-	6+	7+	8+	9+	10(+)	11+	12+	13+	14+	15-	16+	17+	18+	19-	20-

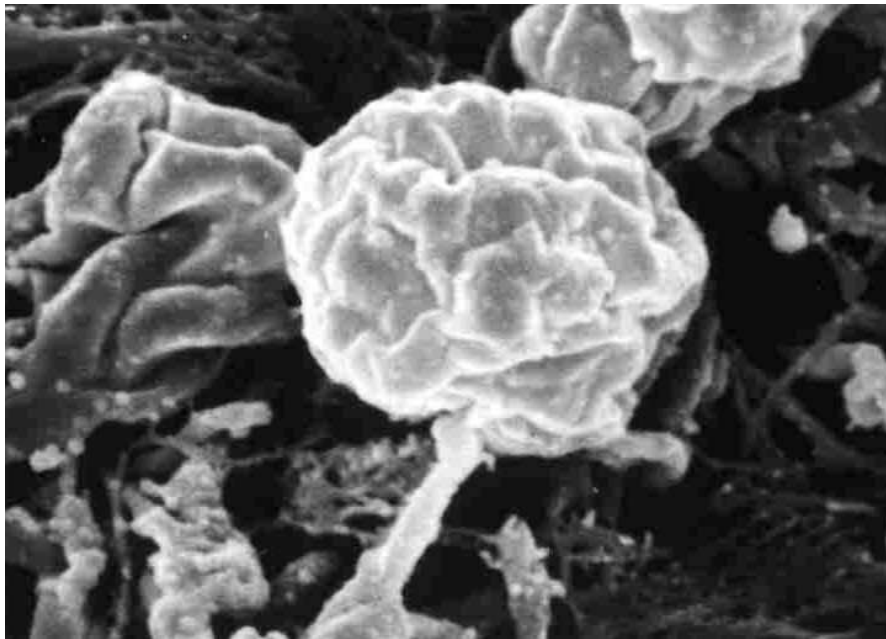
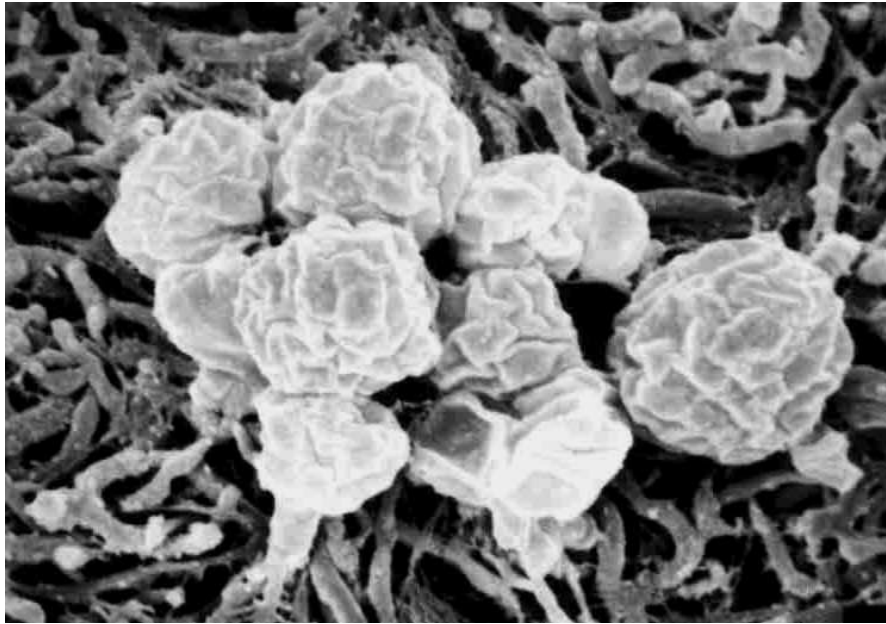
Comments:



Actinoplanes missouriensis

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

B – Agar plates medium 5322, 5317, 5006, 5337 with and without tyrosine



Actinoplanes missouriensis

Sporangia in SEM

C x 5.000 D x 10.000