

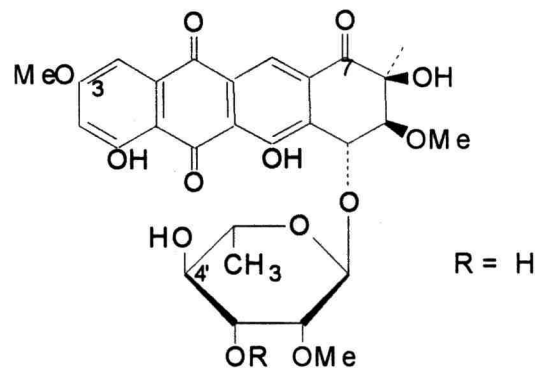
Name: ***Actinoplanes utahensis***
Authors: Couch 1963
Status: Approved Lists
Literature: Int. J. Syst. Bacteriol. 30:244 (AL)
Risk group: 1 (German classification)
Type strain: ATCC 14539, DSM 43147, IMET 9252

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	4,0		
15 : 0 Iso	4,0	18 : 1 cis 9	8,0
15 : 0 Anteiso	1,0	18 : 0	3,0
15 : 0	3,0		
16 : 0 Iso	8,0		
16 : 1 cis 9	27,0		
16 : 0	24,0		
17 : 0 Iso	6,0		
17 : 0 Anteiso	3,0		
17 : 1 cis 9	6,0		
17 : 0	3,0		

Secondary metabolites from *Actinoplanes utahensis*
Steffimycin, anthracycline antibiotic, antibacterial and antineoplastic agent



Genus: *Actinoplanes*

FH 2264

Species: *utahensis*

Numbers in other collections: NRRL 12052

Morphology:

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

Spore chains:

Spore surface: smooth

Sporangia: +

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: -

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

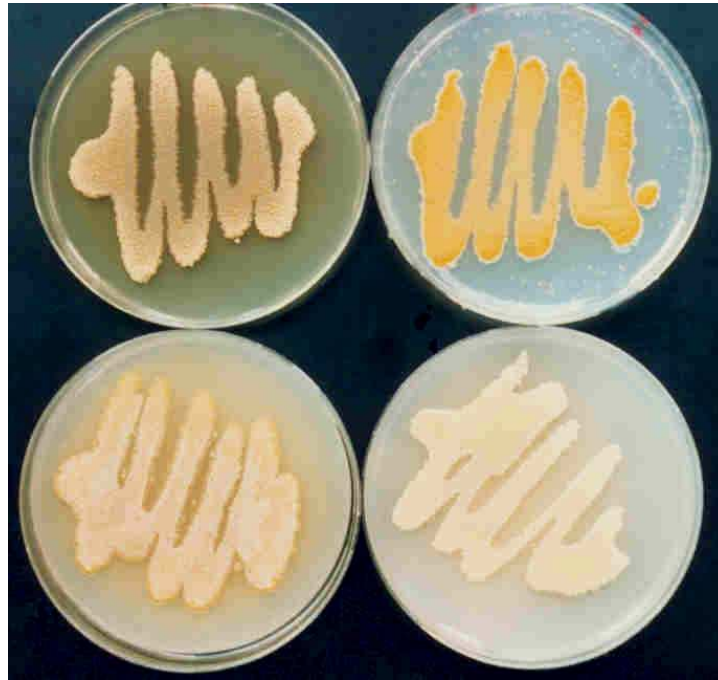
Carbon utilization:

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-

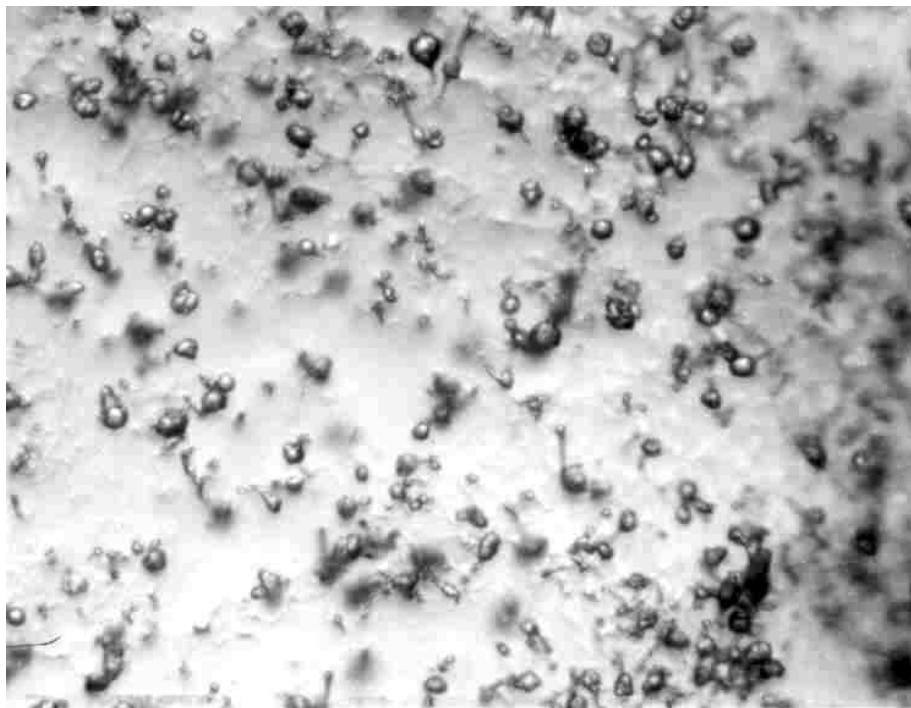
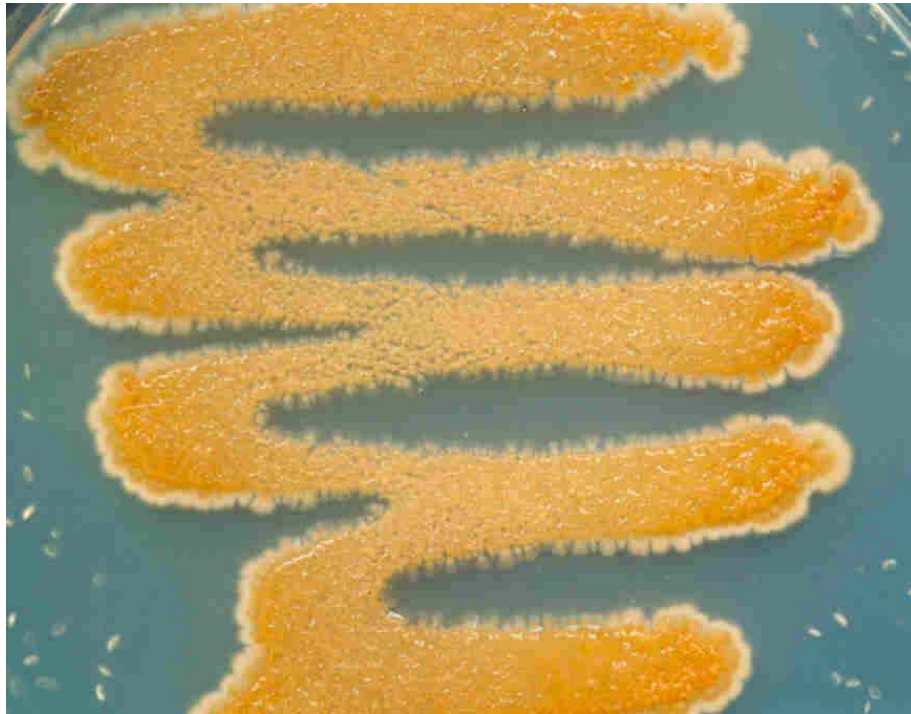
Comments:



Actinoplanes utahensis

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

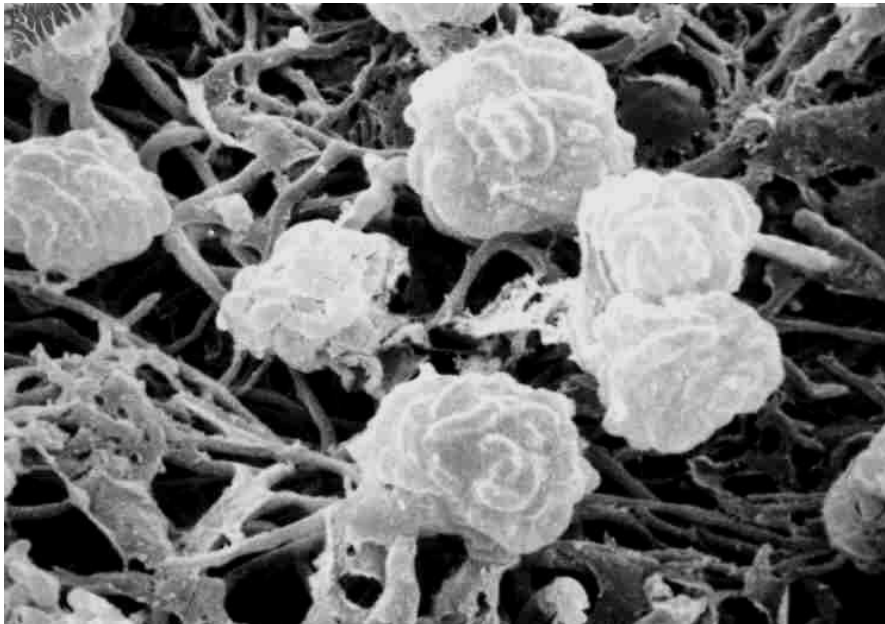
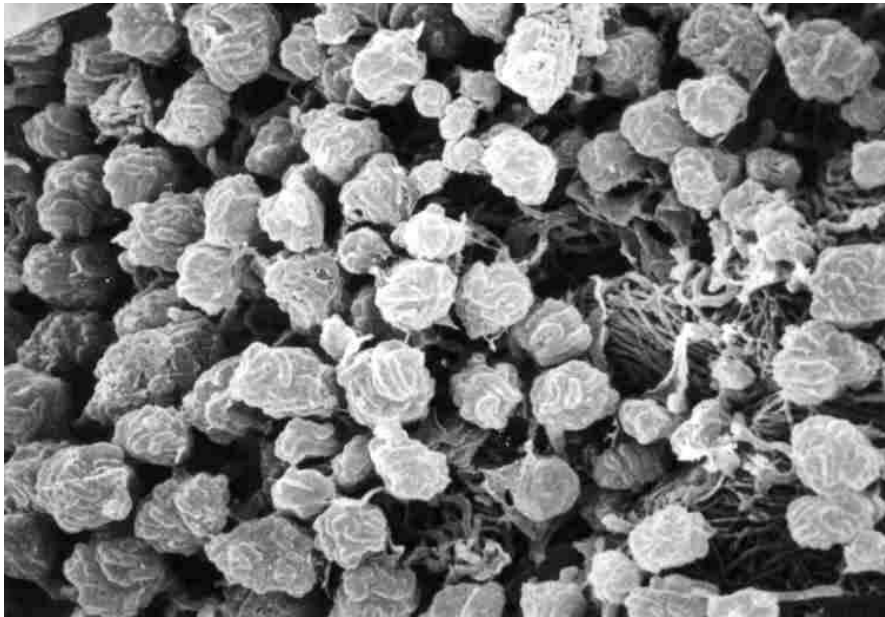
B – Agar plates medium 5006, 5318, 5337 with and without tyrosine



Actinoplanes utahensis

C – Colony detail on medium 5323

D – Sporangia in LM (x 250)



Actinoplanes utahensis

Sporangia in SEM

E x 1.500 F x 3.500

Genus: *Actinoplanes*

FH 6039

Species: *utahensis*

Numbers in other collections: **DSM 43147**

Morphology:

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

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: %

Lysozyme resistance: 0

pH: Value- from - Optimum-

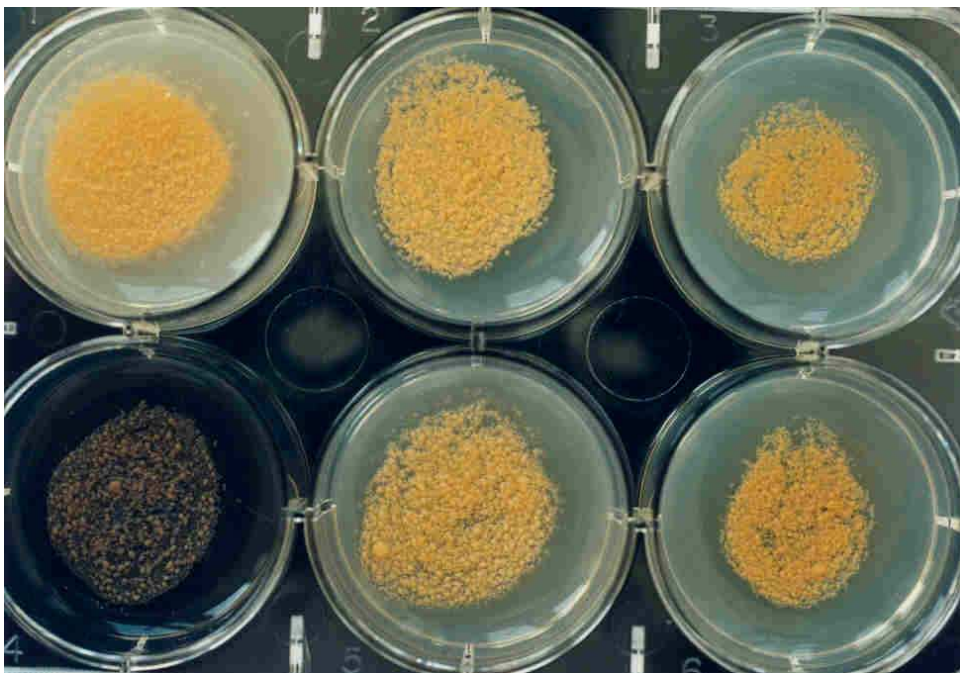
Temperature : Value- Optimum- 28 °C

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-



Actinoplanes utahensis

A – Agar plates medium 5006, 5265 and 5315

B – Microplate with ISP- and melanin media