

Name: ***Actinoplanes brasiliensis***

Authors: Thiemann et al. 1969

Status: Approved Lists

Literature: Int. J. Syst. Bacteriol. 30:244 (AL)

Risk group: 1 (German classification)

Type strain: ATCC 25844, DSM 43805, KCC A-0196

Author(s) Thiemann, J. E., Beretta, G., Coronelli, C., Pagani, H.  
Title Antibiotic production by new formgenera of the  
*Actinomycetales*. II. Antibiotic A/672 isolated from a new  
species of *Actinoplanes*: *Actinoplanes brasiliensis* nov. sp.

Journal J. Antibiot. (Tokyo)  
Volume 22  
Page(s) 119-125  
Year 1969

Fatty acid pattern:

14 : 0 Iso	3,0		
15 : 0 Iso	13,0	18 : 1 cis 9	5,0
15 : 0 Anteiso	19,0	18 : 0	6,0
15 : 0	4,0		
16 : 0 Iso	18,0		
16 : 1 cis 9	2,0		
16 : 0	5,0		
17 : 0 Iso	4,0		
17 : 0 Anteiso	9,0		
17 : 1 cis 9	5,0		
17 : 0	10,0		

**Genus:** *Actinoplanes*

FH 2237

**Species:** *brasiliensis*

**Numbers in other collections:** ATCC 25844

Morphology:

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

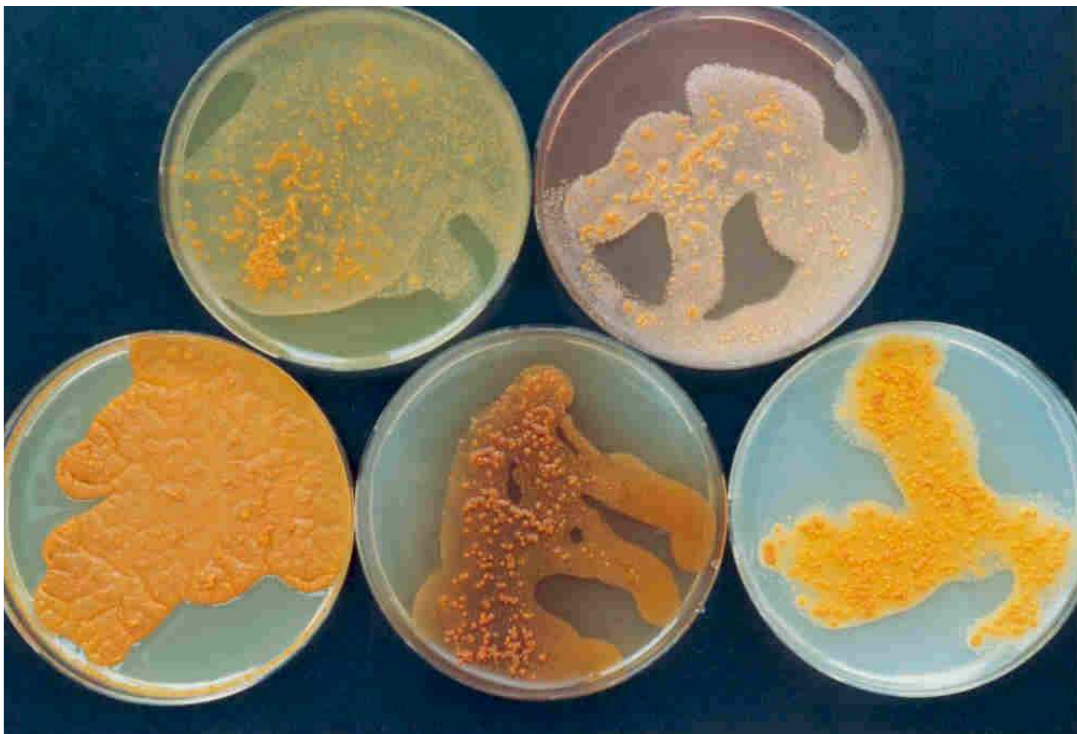
Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	+	+	(+)	(+)	+	+	+	(+)	(+)

Enzymes:

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

Comments:



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A – Agar plates medium 5265, 5323 and 5315

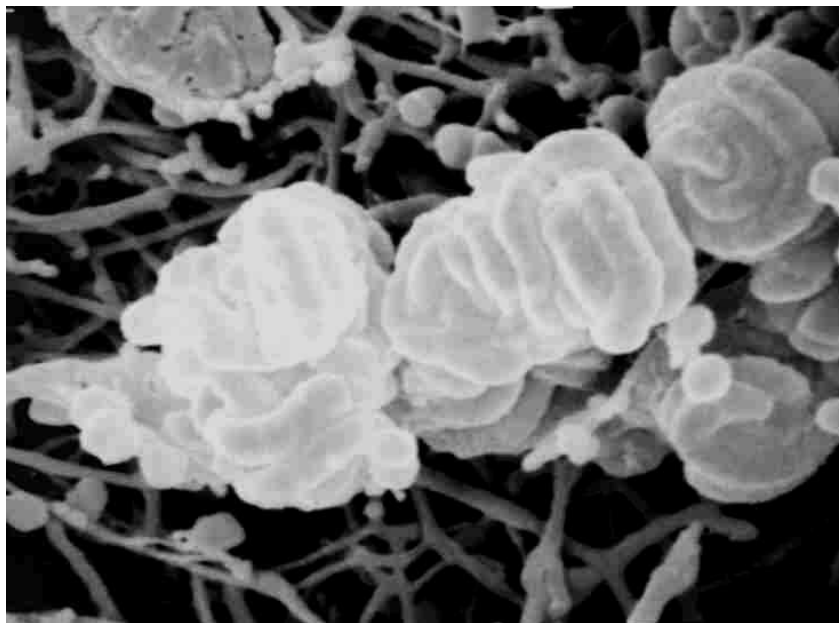
B – Agar plates medium 5318, 5322, 5006, 5337 with and without tyrosine



***Actinoplanes brasiliensis***

C – Colony detail on medium 5315

D – Sporangia in LM (x 250)



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Sporangia in SEM

E x 5.000 F x 7.500