

Name: *Amycolatopsis fastidiosa*

Authors: (ex Celmer et al. 1977) Henssen et al. 1987

Status: New Species

Literature: Int. J. Syst. Bacteriol. 37:292

Risk group: 1 (German classification)

Type strain: ATCC 31181, DSM 43855

Author(s) Henssen, A., Kothe, H. W., Kroppenstedt, R. M.
Title Transfer of *Pseudonocardia azurea* and "*Pseudonocardia fastidiosa*" to the genus *Amycolatopsis*, with emendet species description.
Journal Int. J. Syst. Bacteriol.
Volume 37
Page(s) 292-295
Year 1987

Fatty acid pattern:

14 : 0 Iso	2,0	17 : 0 Anteiso	4,5
15 : 0 Iso	12,0	16 : 0 Iso 2OH	10,5
16 : 1 Iso H	4,0	18 : 0	3,5
16 : 0 Iso	40,0		
16 : 1 Cis 9	2,0		
16 : 0	13,0		
16 : 0 Iso 10methyl	3,0		
17 : 0 Iso	7,5		

Genus: *Amycolatopsis*

FH 2539

Species: *fastidiosa*

Numbers in other collections: ATCC 31181

Morphology:

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

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation: +

Melanoid pigment: - - - -

NaCl resistance: 5 %

Lysozyme resistance:

pH: Value- Optimum-

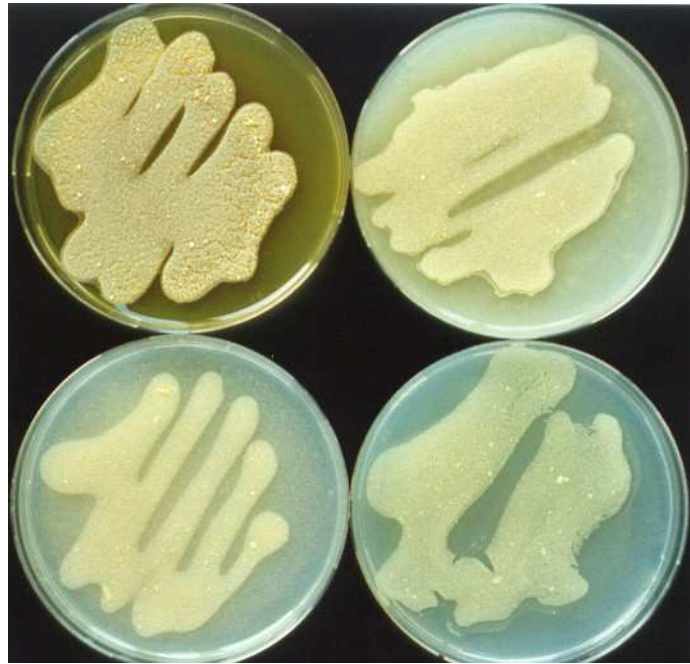
Temperature : Value- Optimum- 30 °C

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-			



Amycolatopsis fastidiosa

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

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

Genus: *Amycolatopsis* **FH 2604**
Species: *fastidiosa*
Numbers in other collections: **DSM 43855**

Morphology:

	G	R
<u>ISP 2</u>	good	pastel 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	none

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation: +

Melanoid pigment: - - - -

NaCl resistance: 7,5 %

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-



Amycolatopsis fastidiosa

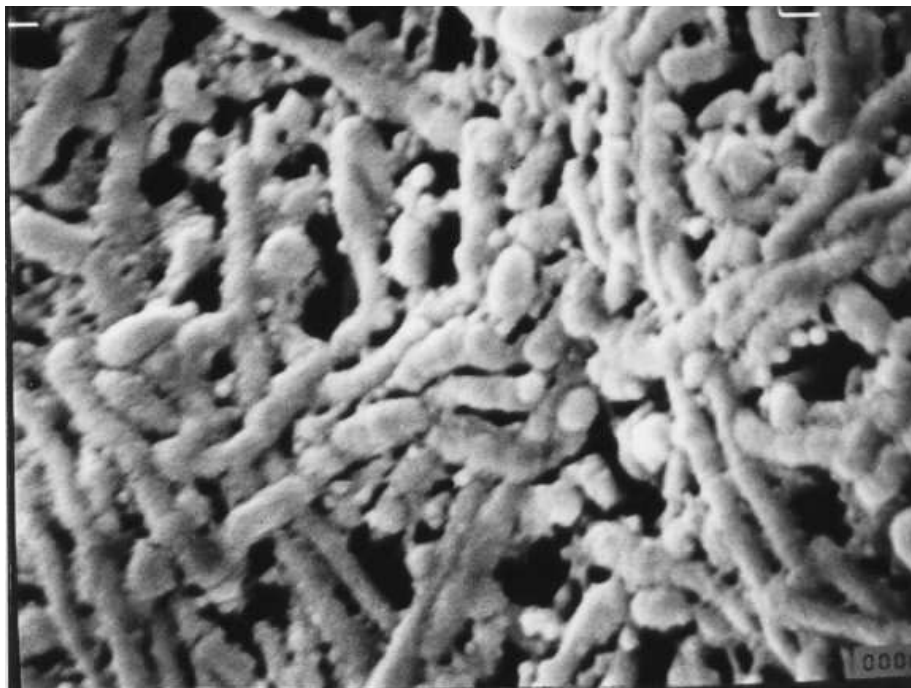
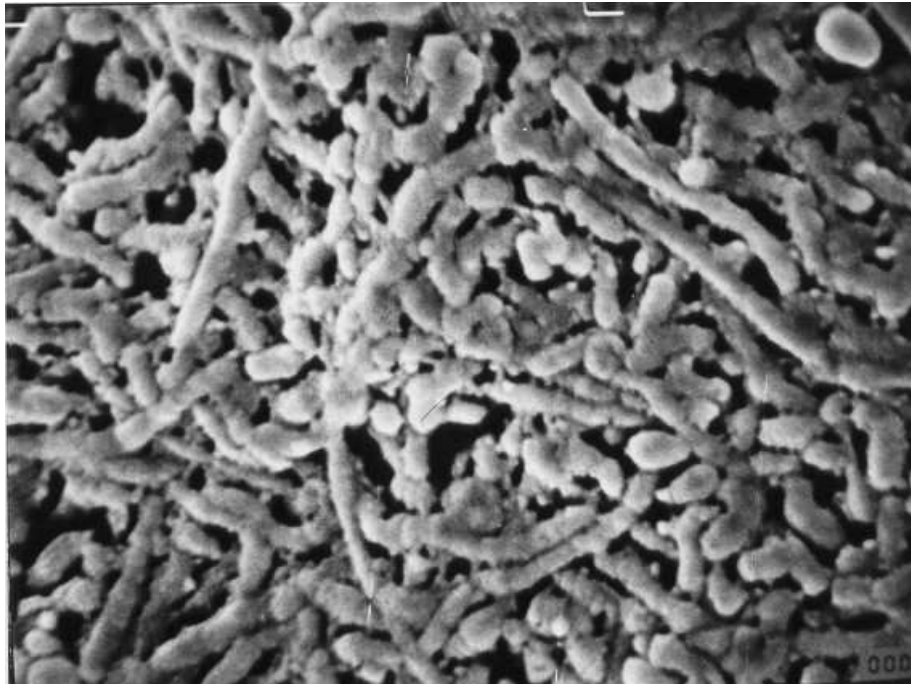
A – Agar plates medium 5265, 5315, 5317 and 5323

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



Amycolatopsis fastidiosa

C- Agar plates medium 5006, 5430, 5429 and 5433



Amycolatopsis fastidiosa

Fragmentation of aerial mycelium (SEM)

D x 7.500 E x 10.000