

Name: ***Nonomuraea fastidiosa***

Authors: (Soina et al. 1975) Zhang et al. 1998

Status: New Combination, Corrected Name

Literature: Int. J. Syst. Bacteriol. 48:419

Risk group: 1 (German classification)

Comment: nom. corrig.: IJSB 49:1623\*; *Nonomuria fastidiosa* (sic)

Type strain: ATCC 33516, DSM 43674, INMI 104

Synonyms: *Actinomadura fastidiosa* (basonym),  
*Microtetraspora fastidiosa* (basonym)

Author(s) Soina, V. S., Sokolov, A. A., Agre, N. S.  
Title Ultrastructure of mycelium and spores of *Actinomadura fastidiosa* sp. nov.  
Journal Mikrobiologiya  
Volume 44  
Page(s) 883-887  
Year 1975

Author(s) Zhang, Z., Wang, Y., Ruan, J.  
Title Reclassification of *Thermomonospora* and *Microtetraspora*.  
Journal Int. J. Syst. Bacteriol.  
Volume 48  
Page(s) 411-422  
Year 1998

Fatty acid pattern:

14 : 0 Iso	2,0	16 : 0 Iso 2 OH	7,0
14 : 0	1,0	17 : 0	1,0
15 : 0 Iso	11,0	17 : 0 10methyl	18,0
15 : 0	3,0	18 : 1 cis9	2,0
16 : 1 Iso G	1,0	18 : 0	4,0
16 : 0 Iso	21,0		
16 : 1 cis 9	3,0		
16 : 0	3,0		
16 : 0 10methyl	8,0		
17 : 0 Iso	5,0		
17 : 1 cis9	3,0		

**Genus:** *Nonomuraea*

FH 2384

**Species:** *fastidiosa*

**Numbers in other collections:** DSM 43674

**Former Actinomadura fastidiosa**

Morphology:

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

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

**Melanoid pigment:** - - - -

**NaCl resistance:** 2,5 %

**Lysozyme resistance:** -

**pH:** Value- Optimum-

**Temperature :** Value- Optimum- 28 °C

**Carbon utilization:**

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

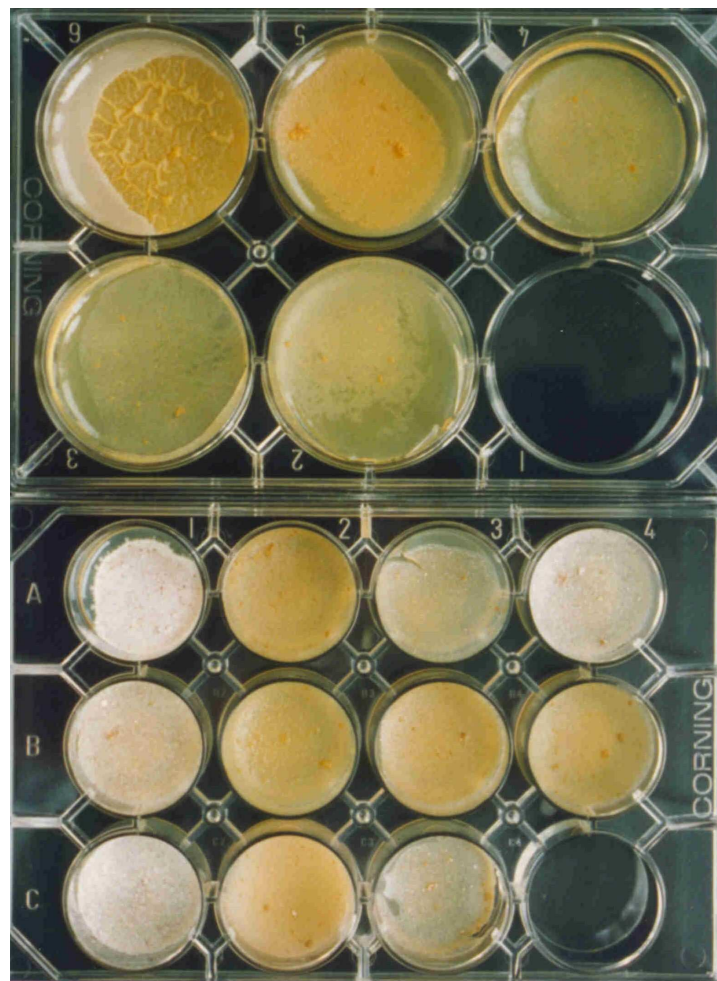
**Enzymes:**

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-			



***Nonomuraea fastidiosa***

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

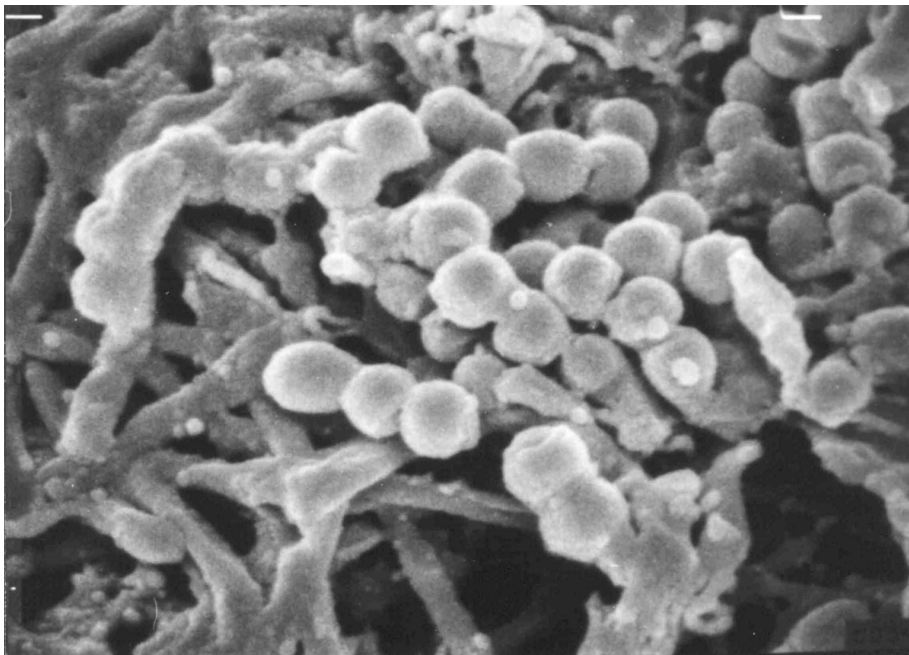
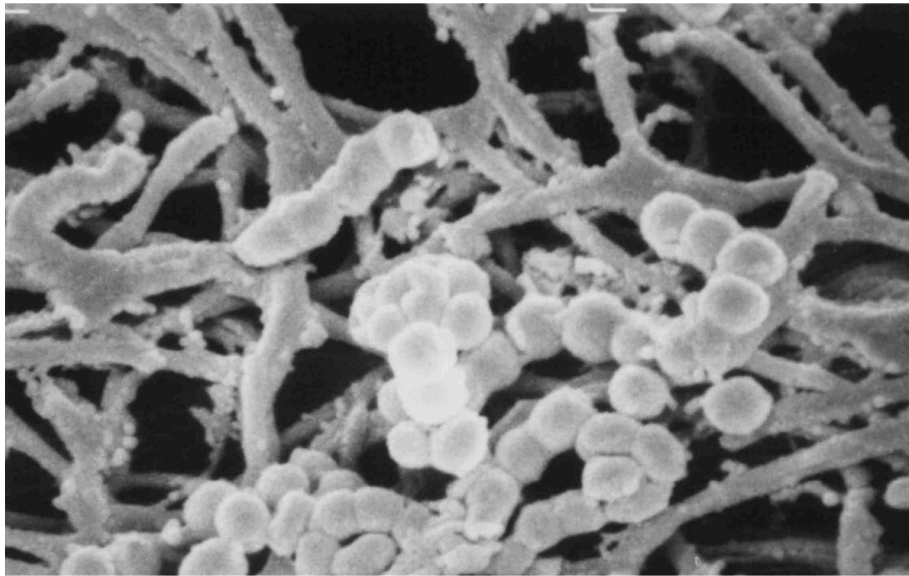


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C – Agar plates medium 5318, 5322, 5337 with and without tyrosine

D – Microplate for NaCl tolerance (upper) and carbon utilization

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Spore chains and spore surface in SEM

E x 7.500 F x 10.000