

Name: *Saccharothrix coeruleofusca*
Authors: (Preobrazhenskaya and Sveshnikova 1974)
Grund and Kroppenstedt 1990
Status: New Combination
Literature: Int. J. Syst. Bacteriol. 40:320 (validation list)
Risk group: 1 (German classification)
Type strain: ATCC 35108, DSM 43679, INA 1335
Synonyms: *Actinomadura coeruleofusca* (basonym),
Nocardioopsis coeruleofusca (basonym)

Author(s) Preobrazhenskaya, T. P., Sveshnikova, M. A., Gauze, G. F.
Title On the transfer of certain species of the genus *Actinomadura*
Lechevalier and Lechevalier 1970 to the genus *Nocardioopsis*
Meyer 1976.
Journal Mikrobiologiya
Volume 51
Page(s) 111-113
Year 1982

Fatty acid pattern:

12 : 0	Iso	1,5
15 : 0	Iso	4,0
15 : 0	Anteiso	2,0
16 : 1	Iso H	8,0
16 : 0	Iso	39,0
16 : 1	Cis 9	7,0
16 : 0		3,5
16 : 0	methyl	3,0
17 : 0	Iso	3,0
17 : 0	Anteiso	11,0
17 : 1	Cis 9	7,0
16 : 0	Iso 2 OH	3,5
17 : 0		1,5
17 : 0	10 methyl	2,5
18 : 0	Iso	1,5
18 : 1	Cis 9	3,5
18 : 0		3,5

Genus: *Saccharothrix* **FH 2439**
Species: *coeruleofusca*
Numbers in other collections: **ATCC 35108**

Morphology:

	G	R
<u>ISP 2</u>	good	deep orange
	A	SP
	silver gray	none
	G	R
<u>ISP 3</u>	good	deep orange
	A	SP
	silver gray	none
	G	R
<u>ISP 4</u>	good	deep orange
	A	SP
	white	none
	G	R
<u>ISP 5</u>	good	deep orange
	A	SP
	white	none
	G	R
<u>ISP 6</u>	good	dahlia yellow
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	dahlia yellow
	A	SP
	white	none

Spore chains: RF Spore surface: smooth
Sporangia: Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 2,5 %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

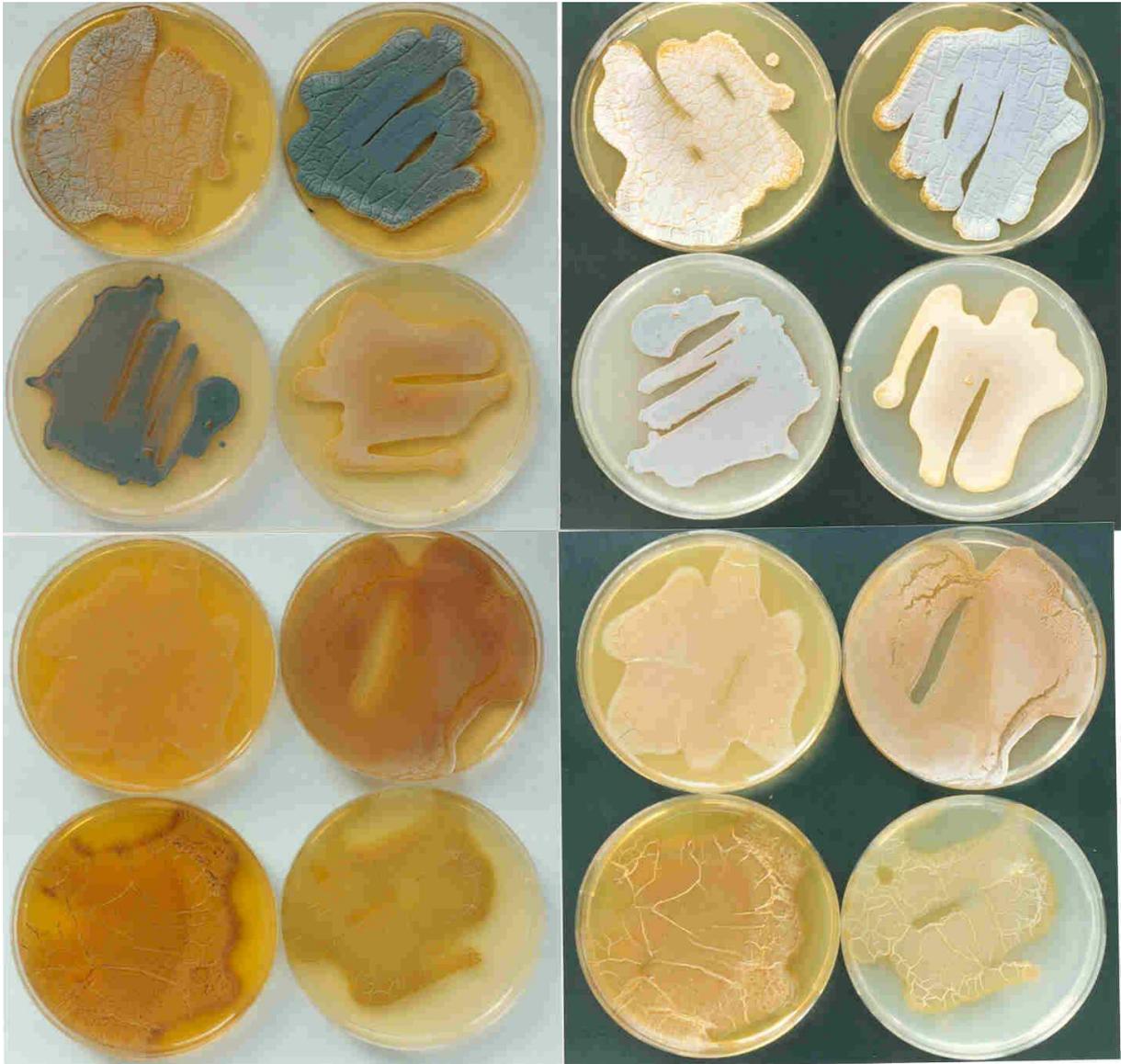
Carbon utilization:

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-			

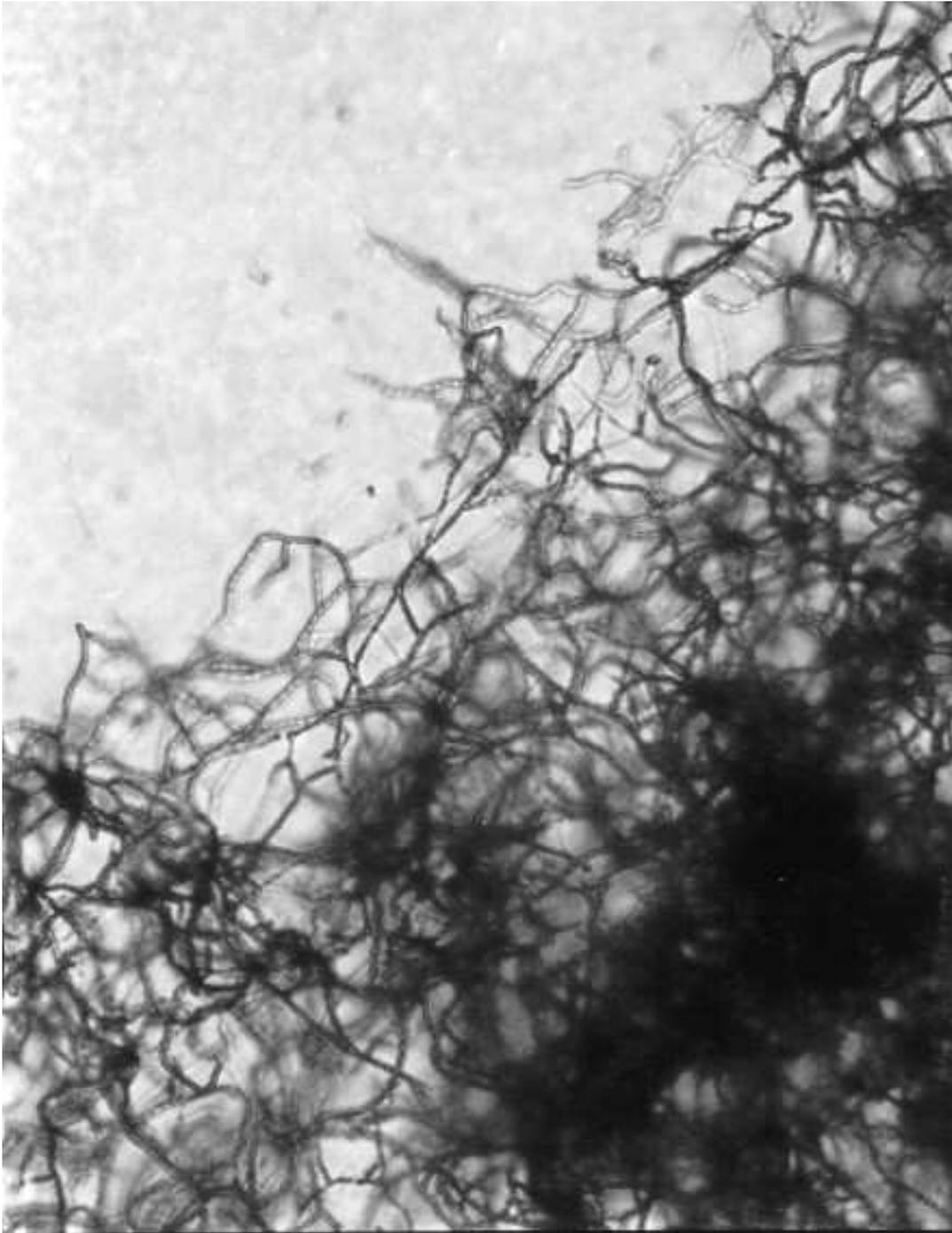
Comments:



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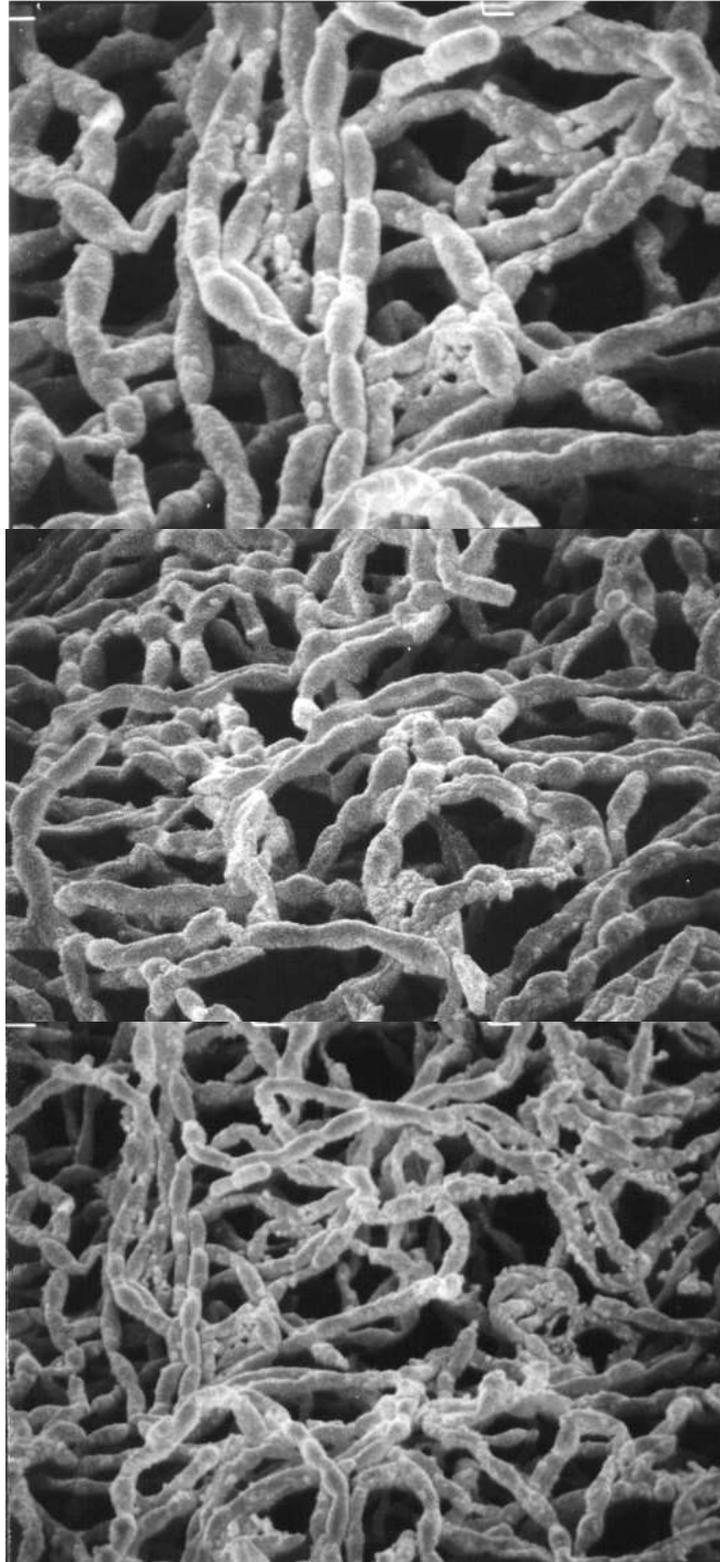
A and B – Agar plates medium 5006, 5265, 5315 and 5317

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



Saccharothrix coeruleofusca

E – Aerial mycelium with spore chains (LM x 250)



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F – Spore surface (SEM x 10.000) G – Spore chains (SEM x 7.500)
H – Aerial mycelium with spore chains (SEM x 5.000)