

Name: ***Nonomuraea roseoviolacea* subsp. *carminata***

Authors: (Gauze et al. 1973) Gyobu and Miyadoh 2001

Status: New Combination

Literature: Int. J. Syst. Bacteriol. 51:887

Risk group: 1 (German classification)

Type strain: DSM 44170, IFO 15903, INA 4281

Synonyms: *Actinomadura carminata* (basonym)

Author(s) Gauze, G. F., Sveshnikova, M. A., Ukholina, R. S., Gavrilina, D. V., Filicheva, V. A., Gladkikh, E. G.

Title Production of antitumor antibiotic carminomycin by *Actinomadura carminata* sp. nov.

Journal Antibiotiki

Volume 18

Page(s) 675-678

Year 1973

Author(s) Gyobu, Y., Miyadoh, S.

Title Proposal to transfer *Actinomadura carminata* to a new subspecies of the genus *Nonomuraea* as *Nonomuraea roseoviolacea* subsp. *carminata* comb. nov.

Journal Int. J. Syst. Evol. Microbiol.

Volume 51

Page(s) 881-889

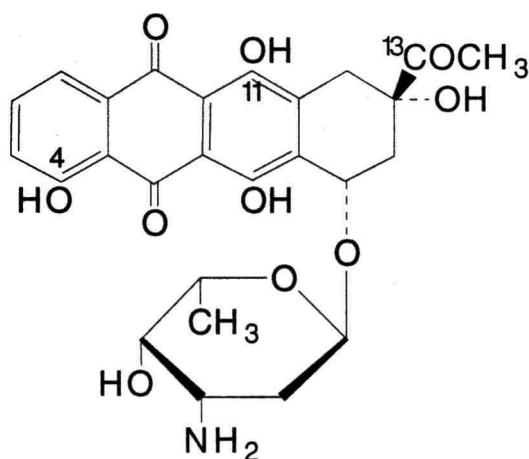
Year 2001

Fatty acid pattern:

14 : 0 Iso	2,0		
14 : 0	3,0	18 : 1 cis 9	3,0
15 : 0 Iso	6,0	18 : 0	3,0
15 : 0	4,0		
16 : 1 cis 9	6,0		
16 : 0	13,0		
16 : 0 10methyl	10,0		
17 : 0 Iso	2,0		
17 : 1 cis 9	7,0		
16 : 0 Iso 2OH	2,0		
17 : 0 10methyl	12,0		

**Secondary metabolites from *Nonomuraea roseoviolacea*  
subsp. *carminata***

Carminomycin, anthracycline antibiotics, antineoplastic agent



**Genus:** *Nonomuraea*  
**Species:** *roseoviolacea*  
**Numbers in other collections:** INA 4281

**HAG 001002**  
**Subsp.:** *carminata*

Morphology:

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

Spore chains: closed spirals  
Sporangia: pseudosporangia

Spore surface: smooth  
Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 2,5 %

Lysozyme resistance:

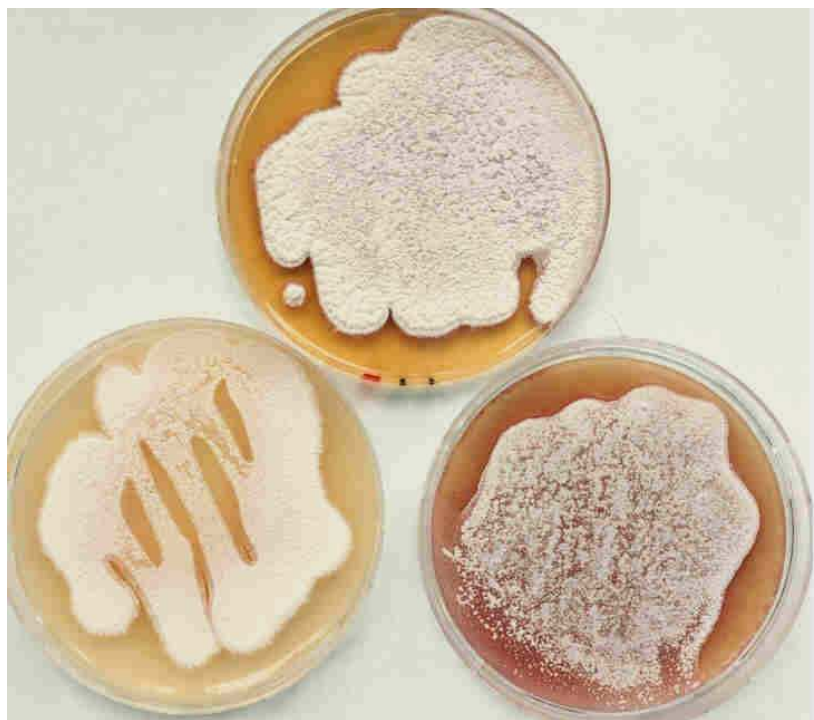
pH: Value- Optimum-  
Temperature : Value- Optimum- 30 °C

Carbon utilization:

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

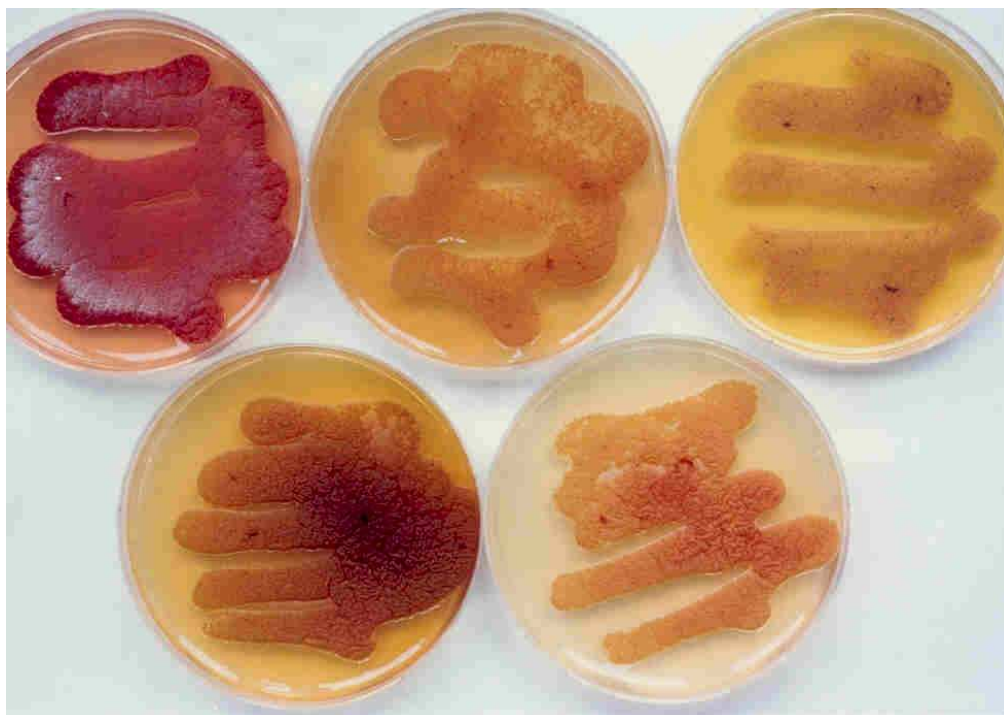
Enzymes:

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



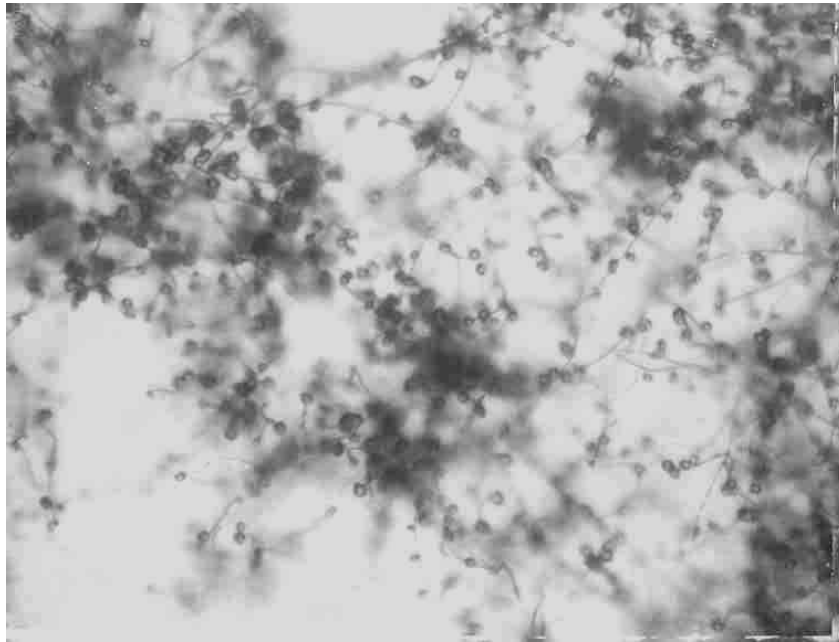
***Actinomadura roseoviolacea* subsp. *carminata***

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

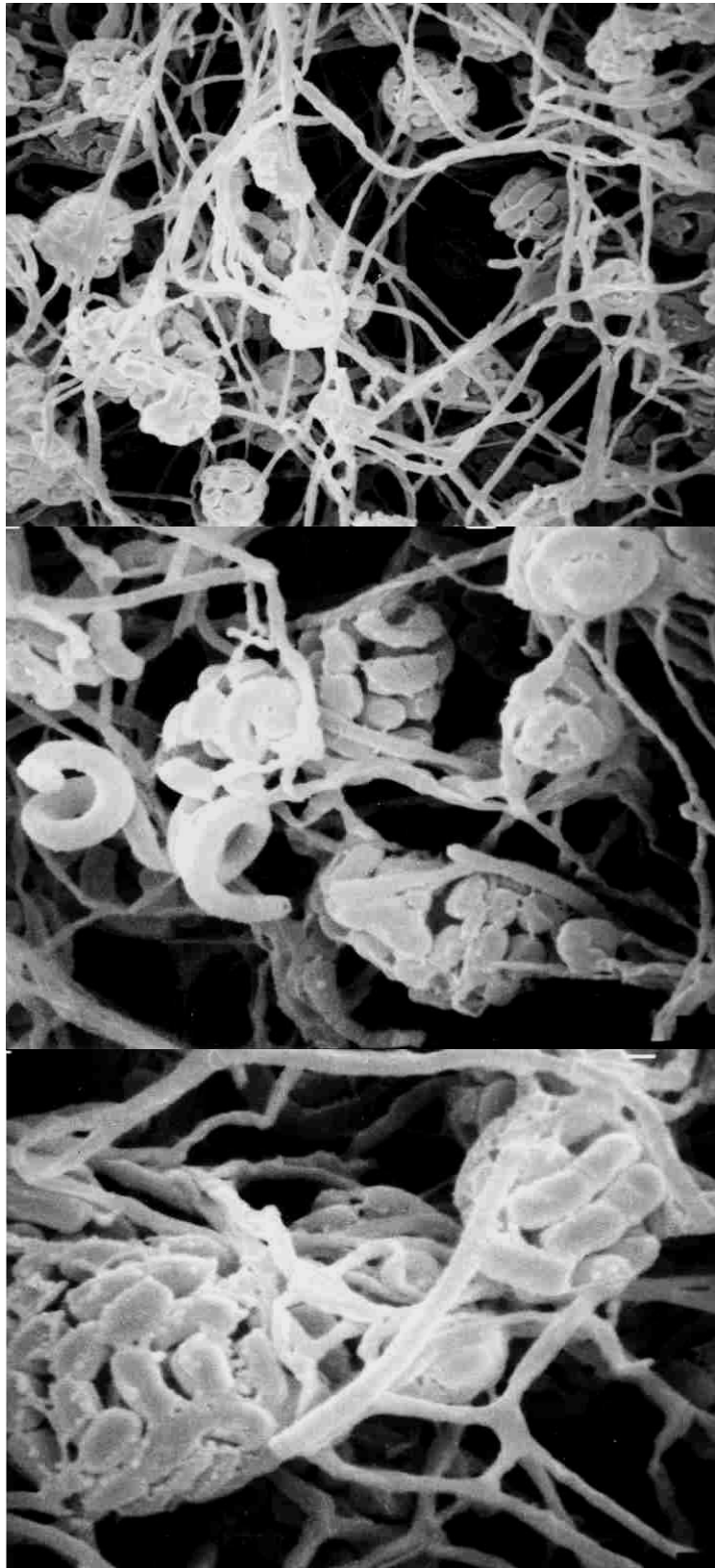


***Actinomadura roseoviolacea* subsp. *carminata***

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



***Nonomuraea roseoviolacea* subsp. *carminata***  
E and F – Pseudosporangia in LM (x 250)



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Pseudosporangia and spore surface in SEM

G x 3.500 H x 7.500 I x 10.000