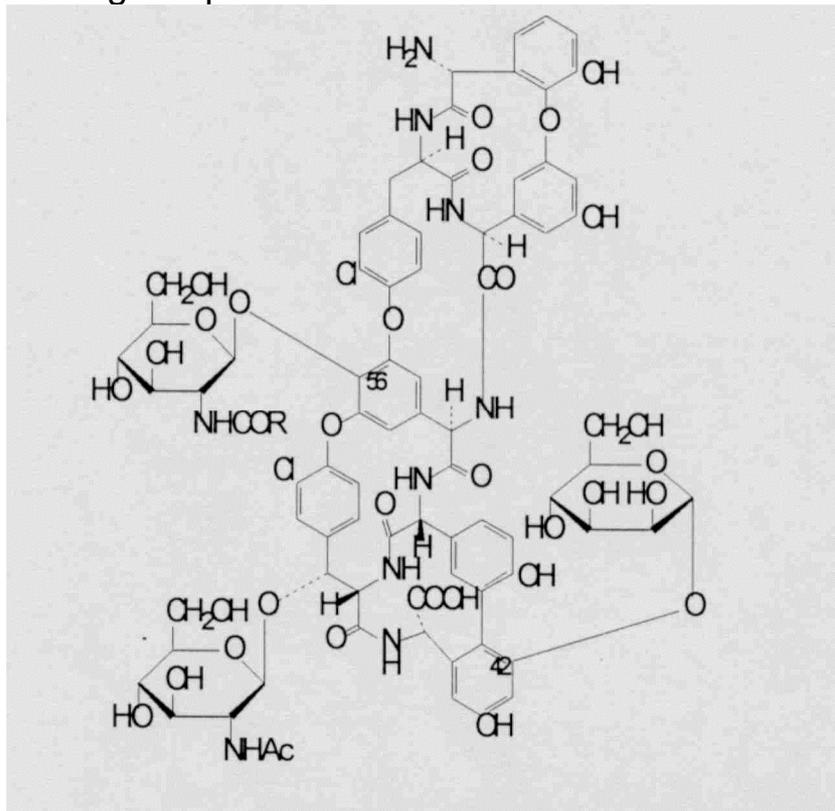


Name:	<b><i>Actinoplanes teichomyceticus</i></b>
Authors:	Wink et al. 2006
Status:	New species
Literature:	Int. J. Syst. Evol. Microbiol. 56:
Risk group:	1 (German classification)
Type strain:	DSM 43866, ATCC 31121, FH 2149

### Secondary metabolites of *Actinoplanes teichomyceticus*

Teicoplanin, glycopeptide antibiotic complex, active against staphylococci and gram-positive anaerobs



**Genus:** *Actinoplanes*

FH 2149

**Species:** *teichomyceticus*

**Numbers in other collections:** ATCC 31121

Morphology:

<u>ISP 2</u>	G	R
	good	antique pink
	A	SP
<u>ISP 3</u>	none	none
	G	R
	good	antique pink
<u>ISP 4</u>	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	antique pink
	A	SP
	none	none
<u>ISP 6</u>	G	R
	good	beige
	A	SP
<u>ISP 7</u>	none	red
	G	R
	sparse	beige
	A	SP
	none	brown
	G	R
	good	orange
	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

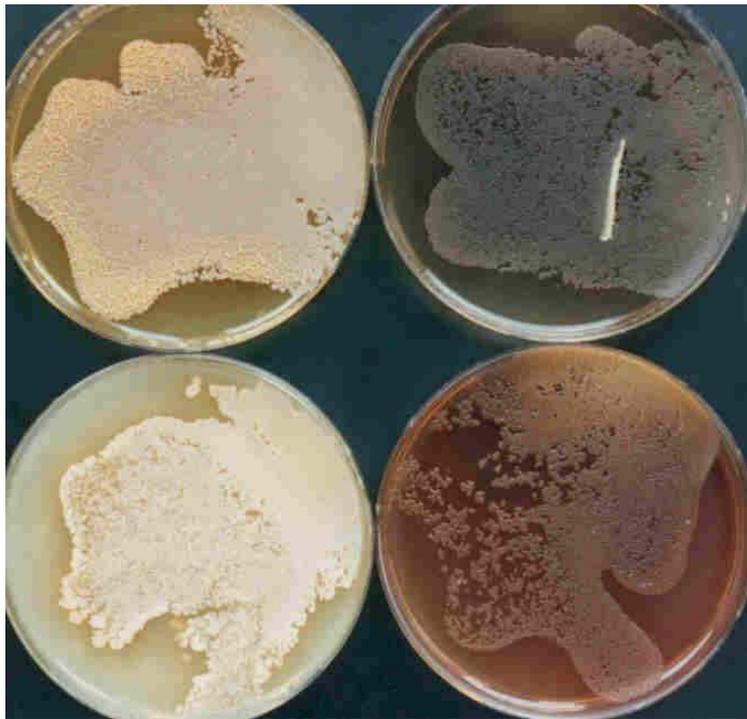
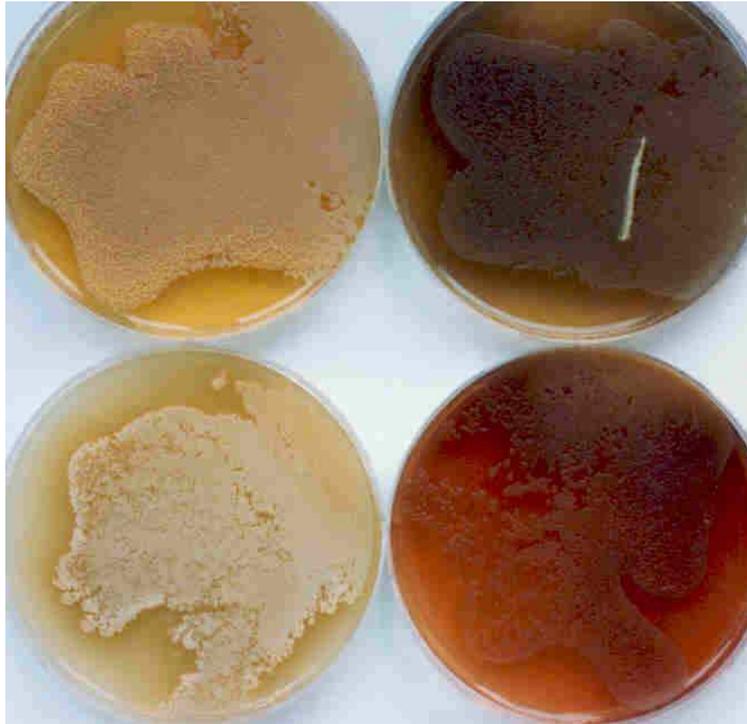
**Carbon utilization:**

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-			

**Comments: Strain produces white aerial mycelium on complex media (e.g. 5006)**



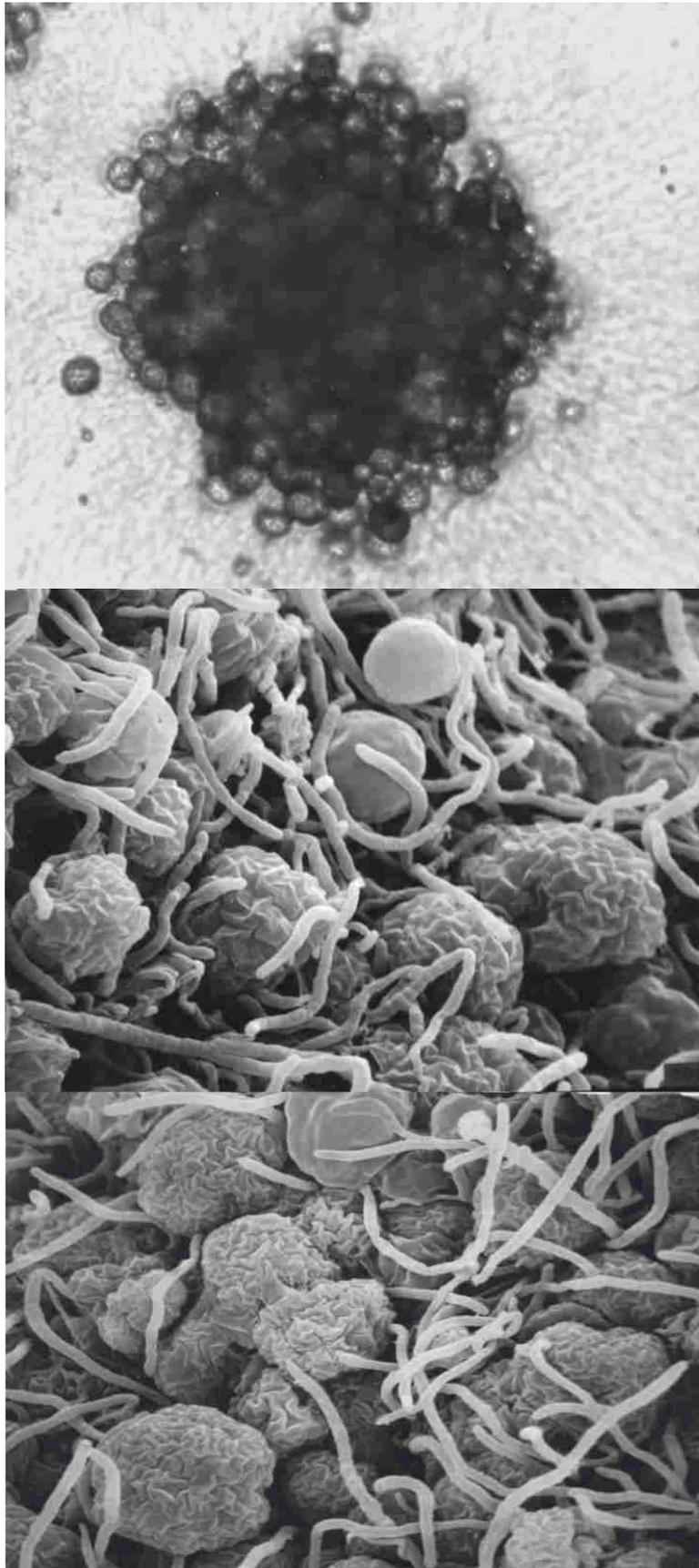
***Actinoplanes teichomyceticus***

A and B – Agar plates medium 5265, 5318, 5315 and 5322



***Actinoplanes teichomyceticus***

C and D - Agar plates medium 5006, 5317, 5323, 5337 with and without tyrosine



***Actinoplanes teichomyceticus***

Sporangia in LM and SEM

E – LM x 250      F – SEM x 2.000      G – SEM x 1.500

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