

Name: ***Actinomadura oligospora***

Authors: Mertz and Yao 1986
Status: New Species
Literature: Int. J. Syst. Bacteriol. 36:179
Risk group: 1 (German classification)
Type strain: A 80190.1, NRRL 15878

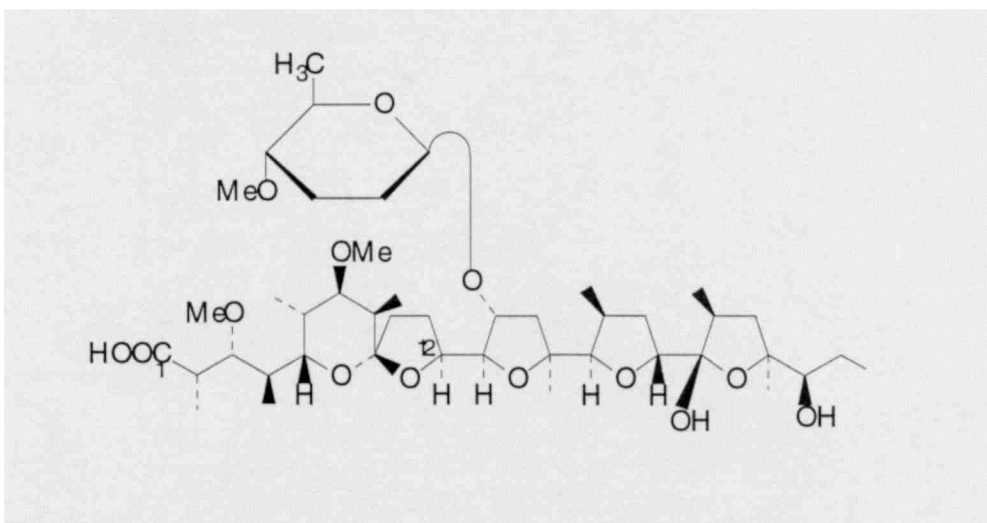
Author(s) Mertz, F. P., Yao, R. C.
Title *Actinomadura oligospora* sp. nov., the producer of a new polyether antibiotic.
Journal Int. J. Syst. Bacteriol.
Volume 36
Page(s) 179-182
Year 1986

Fatty acid pattern:

14 : 0 Iso	5,0
15 : 0	5,0
16 : 0 Iso	21,0
16 : 0	22,0
17 : 0	9,0
18 : 1 cis 9	7,0
18 : 0	10,0

Secondary metabolites from *Actinomadura oligospora*

Portmicin, polyether antibiotic, active against gram-positive bacteria, shows anticoccidial activity



Genus: *Actinomadura*

FH 2443

Species: *oligospora*

Numbers in other collections: ATCC 43269

Morphology:

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

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

Melanoid pigment: - + + -

NaCl resistance: 2,5 %

Lysozyme resistance: -

pH: Value- from -

Optimum-

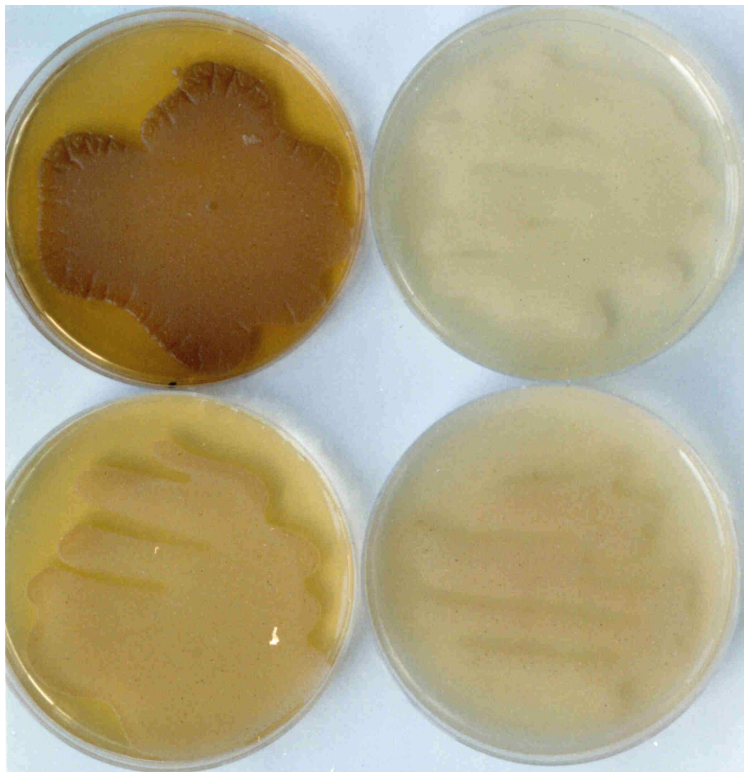
Temperature : Value- Optimum- 28 °C

Carbon utilization:

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

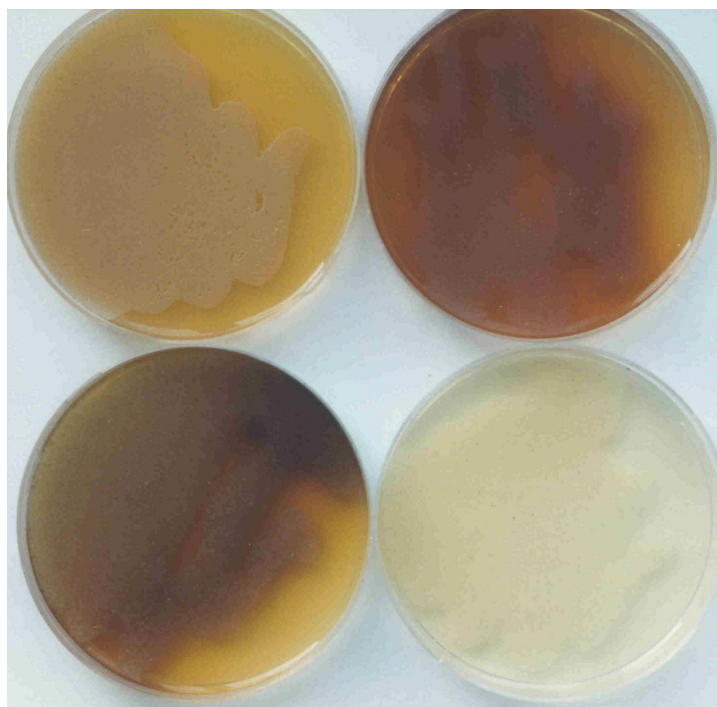
Enzymes:

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



Actinomadura oligospora

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



Actinomadura oligospora

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