

Name: ***Streptomyces spectabilis***

Authors: Mason et al. 1961

Status: Approved Lists

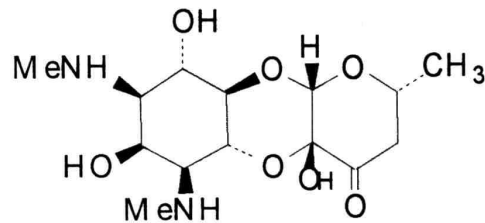
Reference(s): Int. J. Syst. Bacteriol. 30:401 (AL)

Risk group: 1 (German classification)

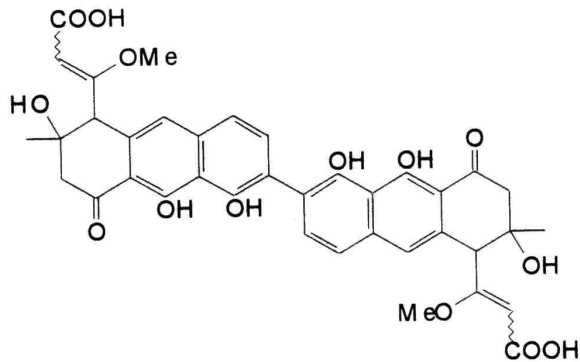
Type strain: ISP 5512, NRRL 2494, DSM 40512

Secondary metabolites from *Streptomyces spectabilis*

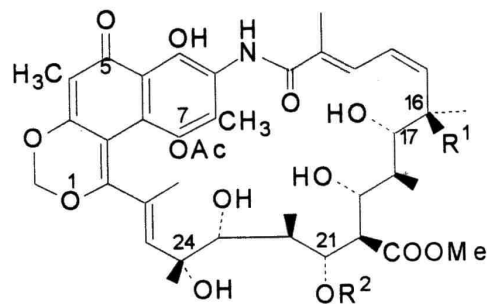
Spectinomycin, aminoglycoside related antibiotic, active against gram-positive and -negative bacteria, used to treat *Neisseria gonorrhoea* infections



Spectomycin, active against gram-positive bacteria



Streptovaricin, ansamycin antibiotic complex with antimicrobial and antiviral activity, used as feed supplement



Streptovaridin	A	R ¹ = OH, R ² = Ac
	B	R ¹ = H, R ² = Ac
	C	R ¹ = R ² = H
	G	R ¹ = OH, R ² = H

Genus: *Streptomyces*

FH 2320

Species: *spectabilis*

Numbers in other collections: ATCC 27465

Morphology:

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

Spore chains: RF

Spore surface: smooth

Sporangia:

Fragmentation:

Melanoid pigment: on synthetical agar only

NaCl resistance: good growth up to 5 %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 30°C

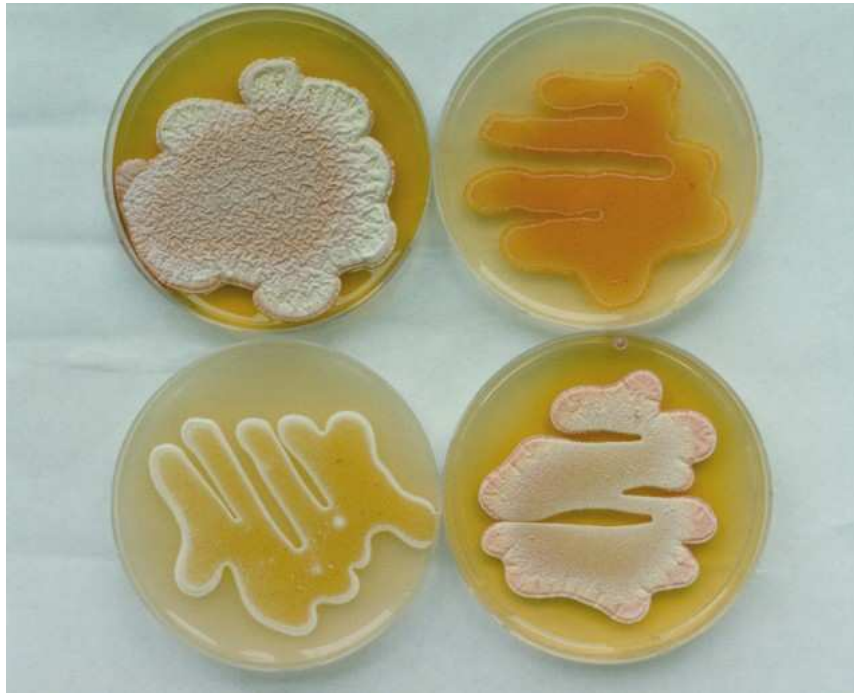
Carbon utilization:

Glu Ara Suc Xyl Ino Man Fru Rha Raf Cel

Enzymes:

Gel Cit Ure Arg Onp Trp Lys Odc VP Ind H2S
+ + + + + + + + - -

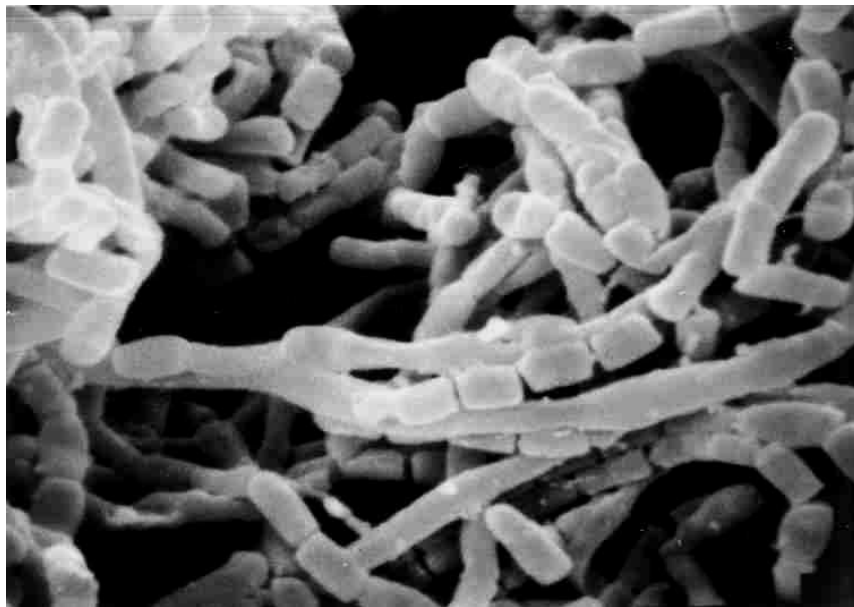
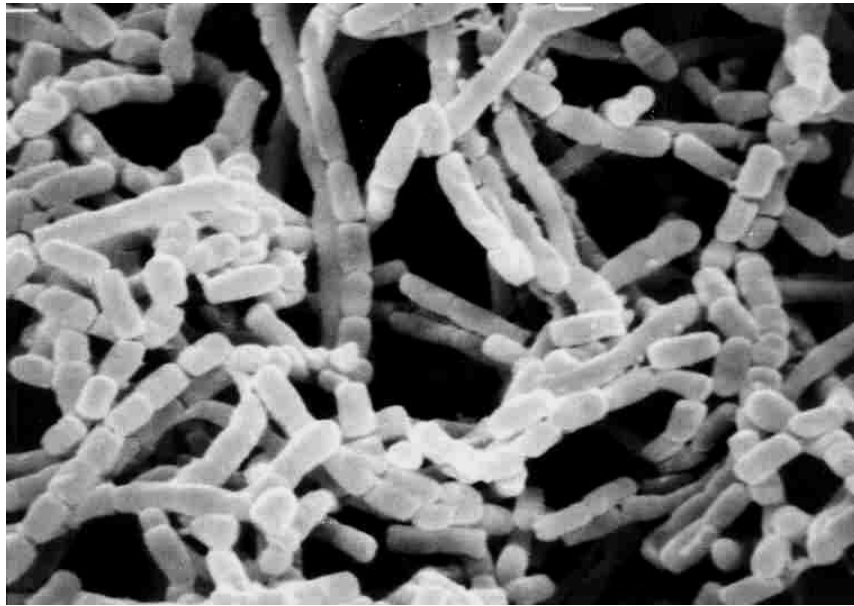
Comments:



Streptomyces spectabilis

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

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



Streptomyces spectabilis

Spore chains and spore surface in SEM

C x 7.500 D x 10.000