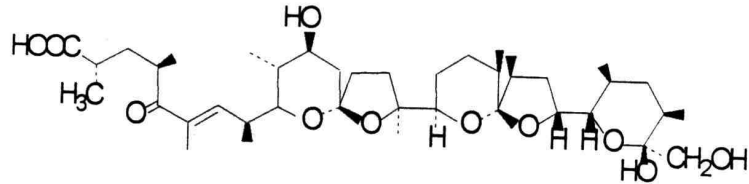


Name:	<i>Streptomyces halstedii</i>
Authors:	(Waksman and Curtis 1916) Waksman and Henrici 1948
Status:	Approved Lists
Reference(s):	Int. J. Syst. Bacteriol. 30:387 (AL)
Risk group:	1 (German classification)
Type strain:	ATCC 10897, IMET 40322, DSM 40068

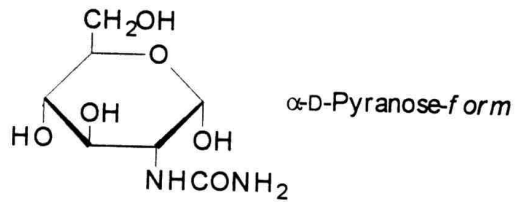
Secondary metabolites from *Streptomyces halstedii*

A lot of different compounds have been described from *Streptomyces halstedii* isolates and the most important and different chemical classes are here reported:

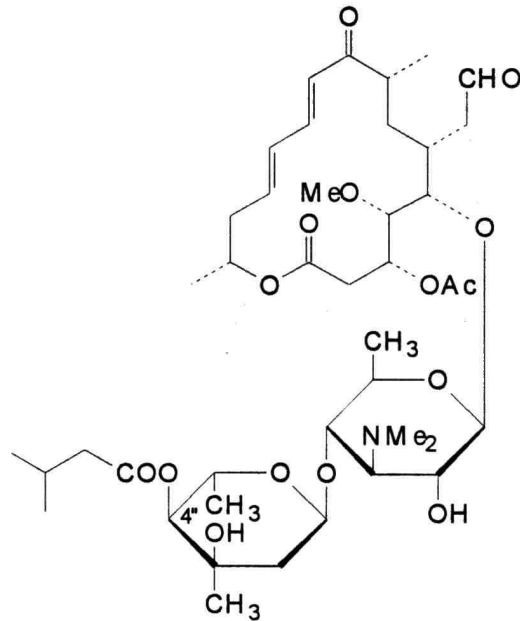
A polyether antibiotic, active against gram-positive bacteria, fungi, protozoa and coccidia



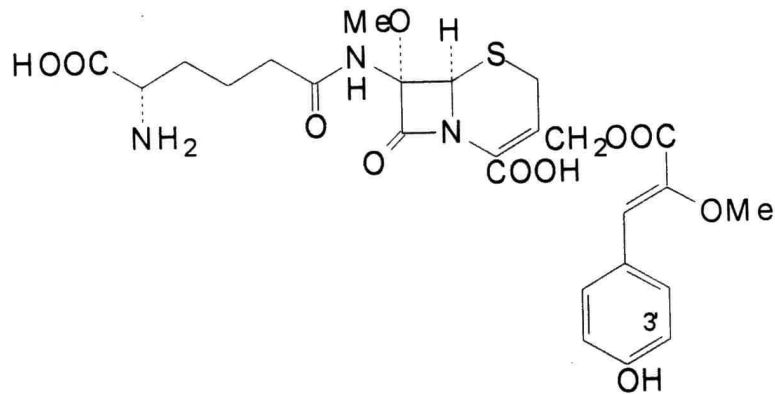
N-Carbamoylglucosamine, an aminoglycosid antibiotic, active against gram-negative bacteria and fungi.



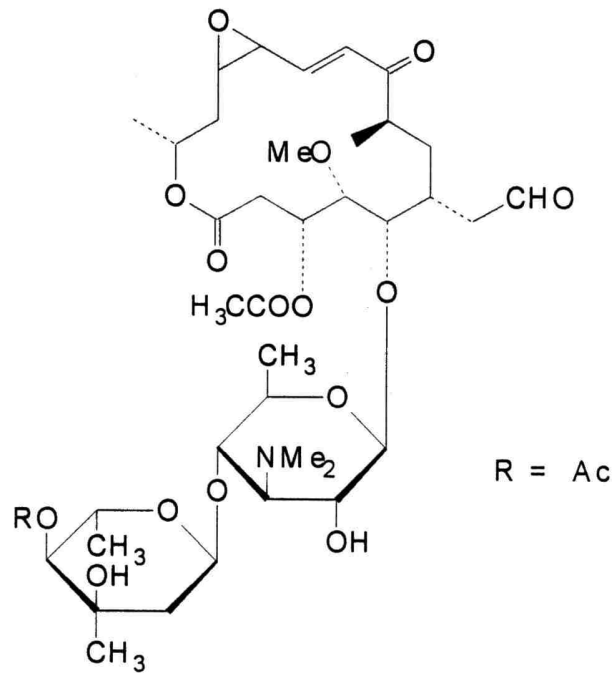
Carbomycin, a macrolide antibiotic, with antibiotic activity



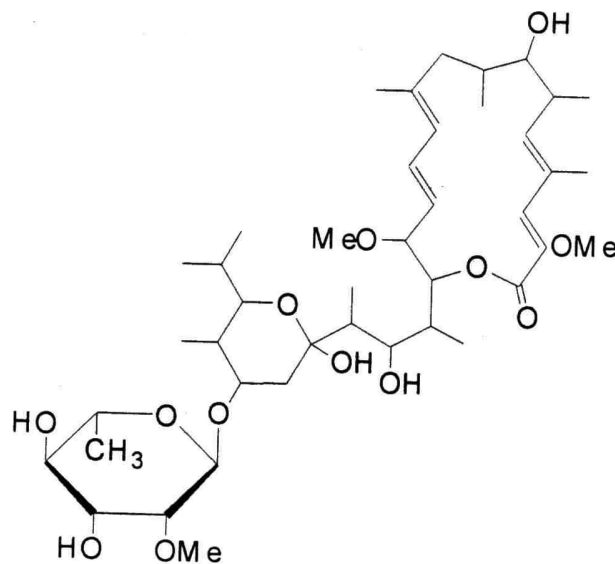
Cephamycin B, a cephalosporin antibiotic, active against gram-positive and-negative bacteria



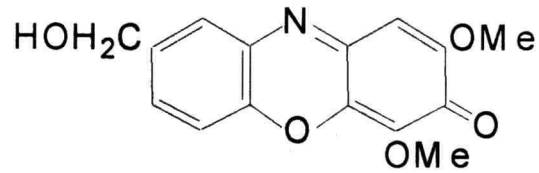
Deltamycin, a macrolide antibiotic, active against gram positive bacteria



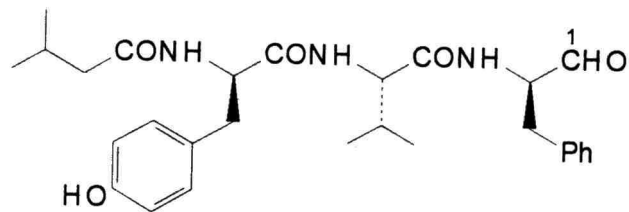
Leucanicidin, a macrolide antibiotic, antifungal and insecticidal activity



Michigazone, a phenoxazon acting as a neuronal cell protecting agent



Nerfilin, a oligopeptide antibiotic inducing neurite outgrowth



Genus: *Streptomyces*

FH 2014

Species: *halstedii*

Numbers in other collections: IMET 40322

Morphology:

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

Spore chains: RF

Spore surface: smooth

Sporangia:

Fragmentation:

Melanoid pigment:

NaCl resistance:

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 30°C

Carbon utilization:

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

Enzymes:

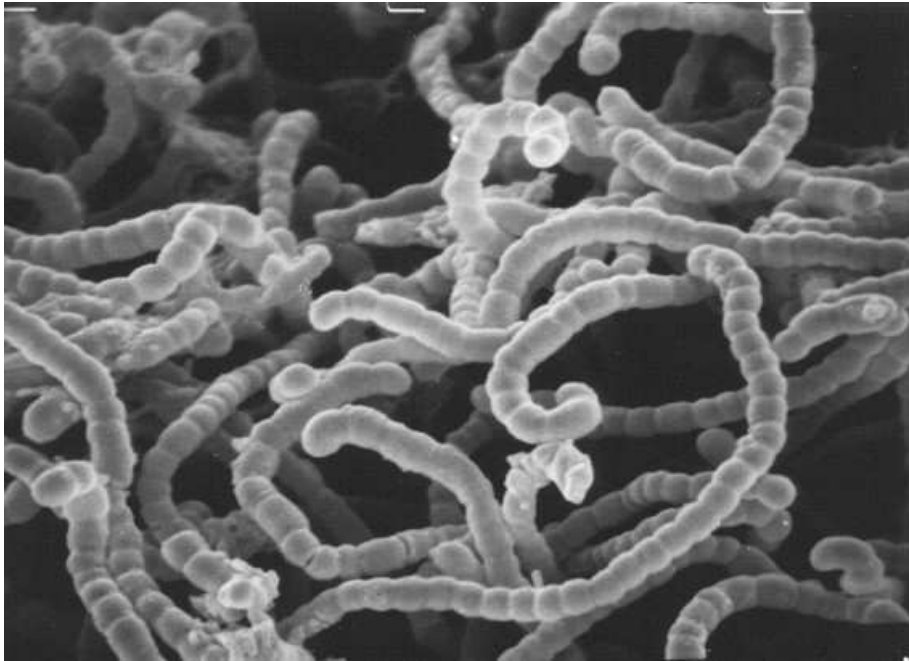
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	+	+	(+)	-	-	-	+	-	+	-

Comments:



Streptomyces halstedii

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



Streptomyces halstedii

C- Microplate with ISP- and melanin media

D – Spore chain morphology and spore surface in SEM (x 5.000)