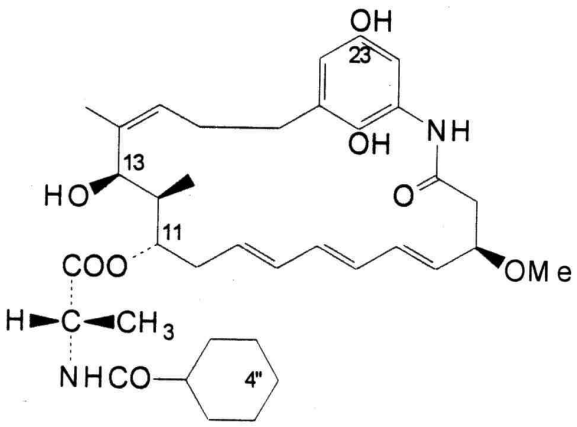
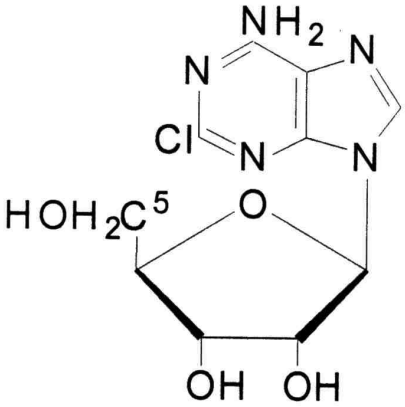
| | |
|---|---|
| Name: | ***Streptomyces rishiriensis*** |
| Authors: | Kawaguchi et al. 1965 |
| Status: | Approved Lists |
| Reference(s): | Int. J. Syst. Bacteriol. 30:399 (AL) |
| Risk group: | 1 (German classification) |
| Type strain: | ATCC 14812, CBS 708.72, IFO 13407,<br>IMET 43843, ISP 5489, RIA 1368, DSM 40489 |

Secondary metabolites from *Streptomyces rishiriensis*

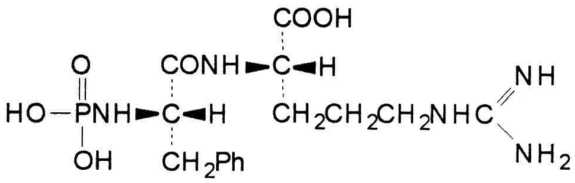
Ansatrienin, ansamycin-type antibiotic, antifungal agent



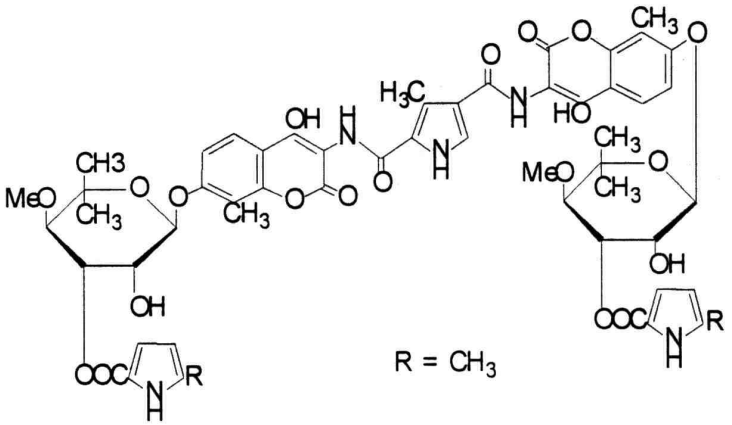

Chloradenosin, nucleoside antibiotic, blood platelet aggregation inhibitor, waekly active against gram-positive and –negative bacteria



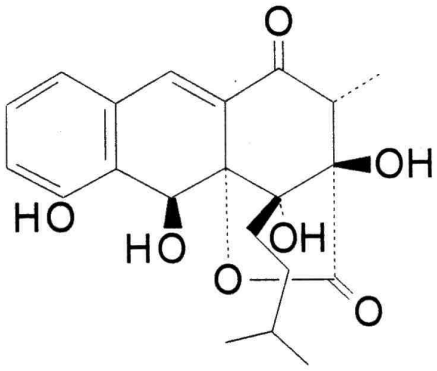

Phosphophenylalanylarginine, peptide antibiotic, inhibits metallproteases



Coumermycin (Notomycin), active against gram-positive and –negative bacteria, but no longer marketed




Rishirilide, plasmin inhibitor antagonist and possesses antibacterial and anticarcinogenic activity



**Genus:** ***Streptomyces*** **FH 1704**
**Species:** ***rishiriensis***
**Numbers in other collections: DSM 40489**

Morphology:

| | | |
|---|---|---|
| | G | R |
| ISP 2 | good | brown |
| | A | SP |
| | grey | brown |
| | G | R |
| ISP 3 | good | yellow |
| | A | SP |
| | yellow/grey | none |
| | G | R |
| ISP 4 | good | beige |
| | A | SP |
| | grey | none |
| | G | R |
| ISP 5 | good | yellow |
| | A | SP |
| | white | brown |
| | G | R |
| ISP 6 | | |
| | A | SP |
| | G | R |
| ISP 7 | | |
| | A | SP |

Spore chains: RF Spore surface: smooth
Sporangia: Fragmentation:

**Melanoid pigment:** **+**
**NaCl resistance:** -2,5 %
**Lysozyme resistance:** 0,1 %
**pH:** Value- Optimum-
**Temperature :** Value- Optimum- 28℃

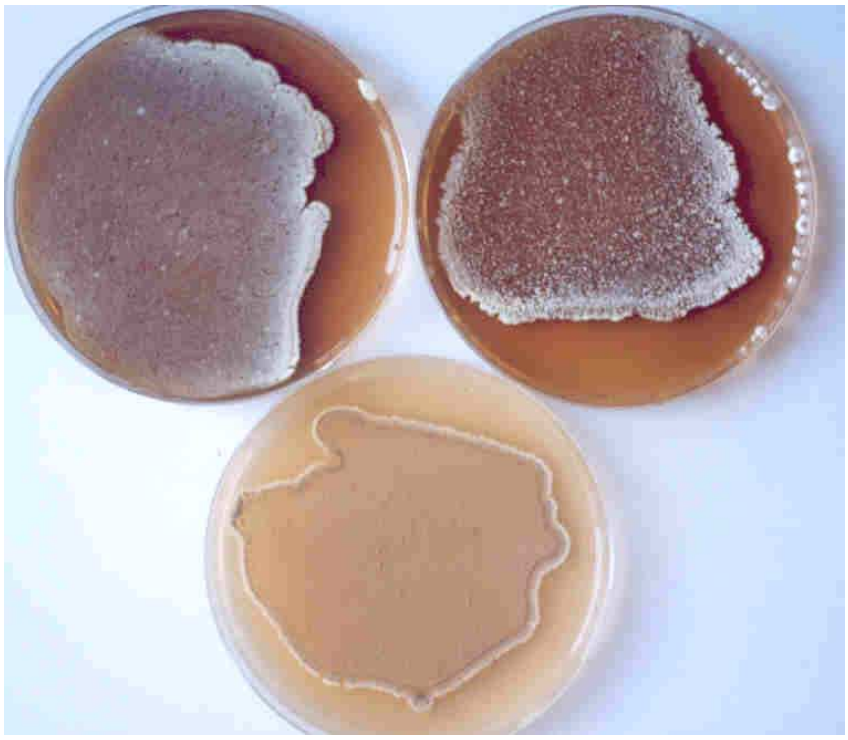
**Carbon utilization:**

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

**Enzymes:**

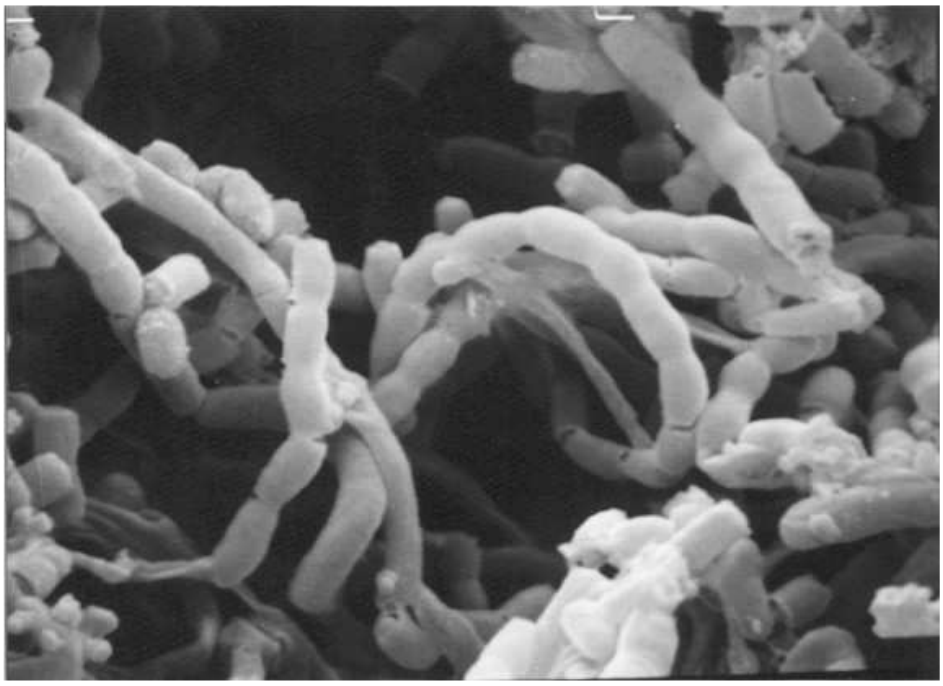
| Gel | Cit | Ure | Arg | Onp | Trp | Lys | Odc | VP | Ind | H2S |
|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | + | + | - | - | - | - | - |

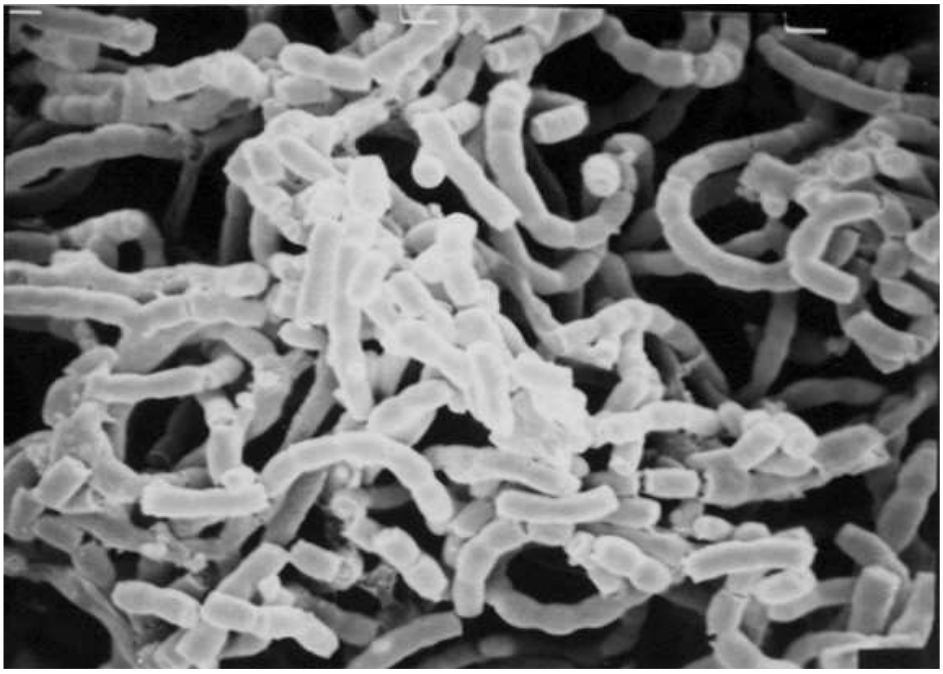
**Comments:**



***Streptomyces rishiriensis***
A and B – Agar plates medium 5006, 5265 and 5315

***Streptomyces rishiriensis***
C and D – Microplate with ISP- and melanin media





***Streptomyces rishiriensis***
Spore chain morphology and spore surface in SEM
E x 7.500  F x 5.000