

Name: *Streptomyces arenae*

Authors: Pridham et al. 1958

Status: Approved Lists

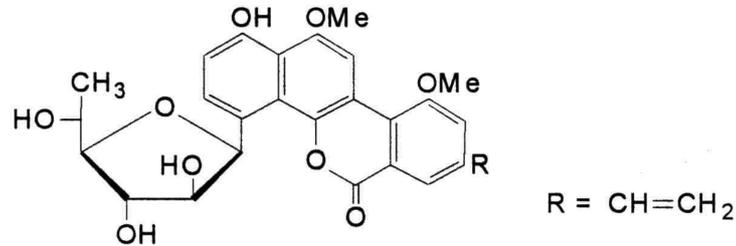
Reference(s): Int. J. Syst. Bacteriol. 30:372 (AL)

Risk group: 1 (German classification)

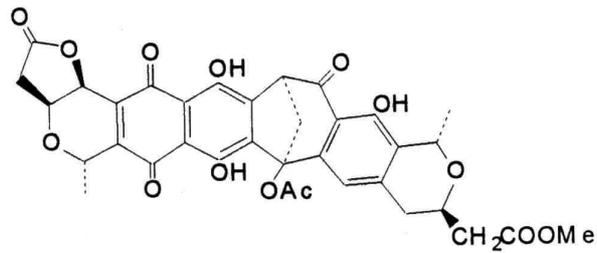
Type strain: NRRL 2377, DSM 40293

Secondary metabolites from *Streptomyces arenae*

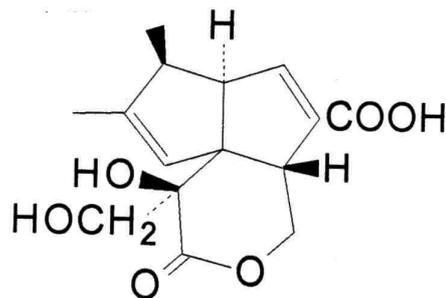
Gilvocarcin (aglycon), glycoside antibiotic, active against gram-positive bacteria and weakly active against gram-negative bacteria, fungi and tumors



Isonaphthocyclinone, active against gram-positive bacteria



Pentalenolactone O, sesquiterpene antibiotic



Genus: *Streptomyces*

FH 1357

Species: *arenae*

Numbers in other collections: NRRL 2377

Morphology:

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

Spore chains: Sp

Spore surface: spiny

Sporangia:

Fragmentation:

Melanoid pigment: +

NaCl resistance:

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 30°C

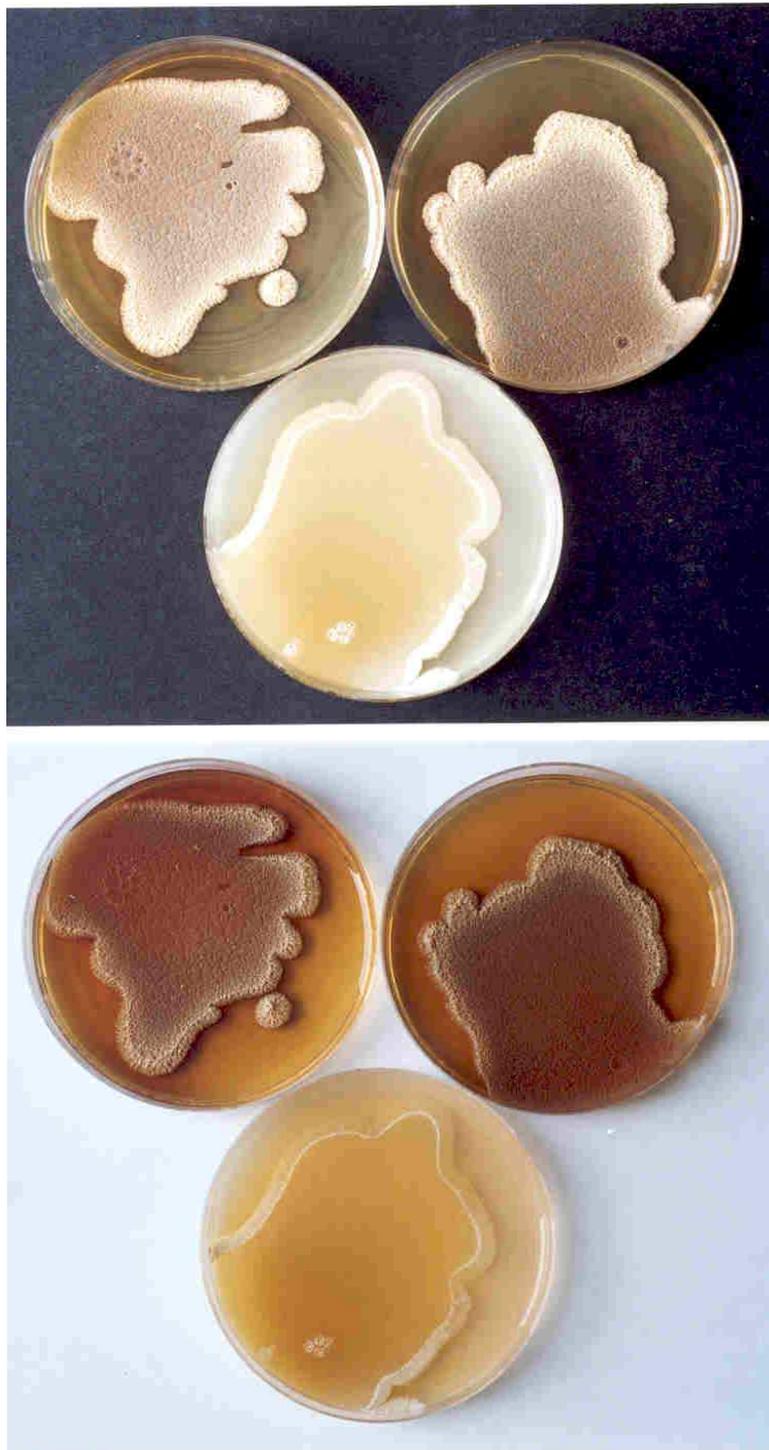
Carbon utilization:

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

Enzymes:

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

Comments



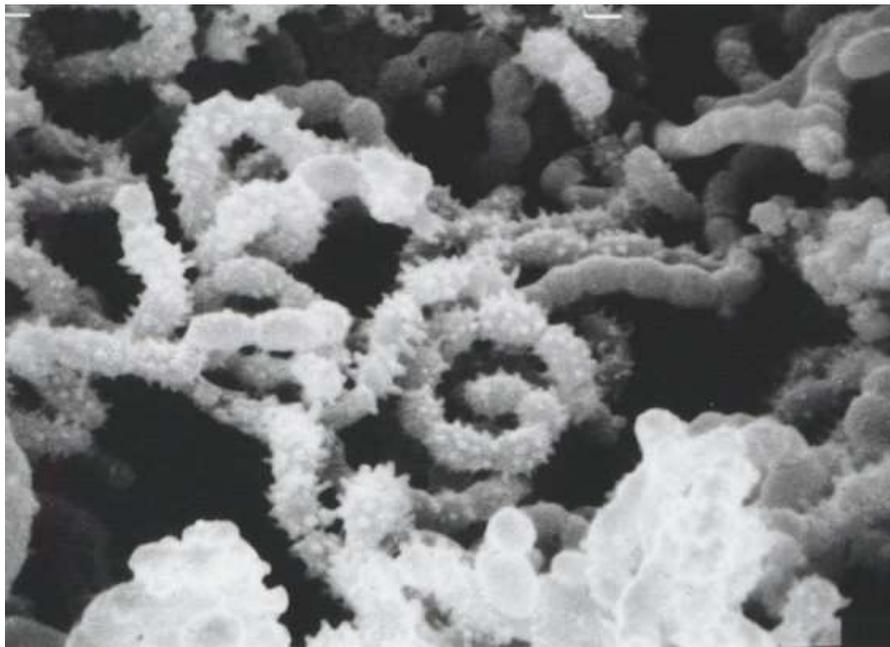
Streptomyces arenae

A and B – Agar plates medium 5006, 5265 and 5315



Streptomyces arenae

C and D – Microplate with ISP- and melanin media



Streptomyces arenae

Spiny spores and spore chains in spirals (SEM)

E x 5.000 F x 7.500