Name:	***Streptomyces peucetius***
Authors:	Grein et al. 1963
Status:	Approved Lists
Reference(s):	Int. J. Syst. Bacteriol. 30:396 (AL)
Risk group:	1 (German classification)
Type strain:	ATCC 29050, DSM 40754

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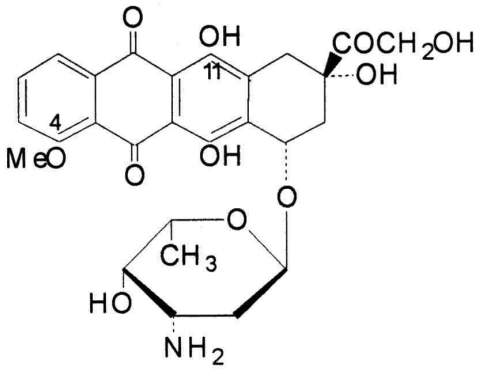
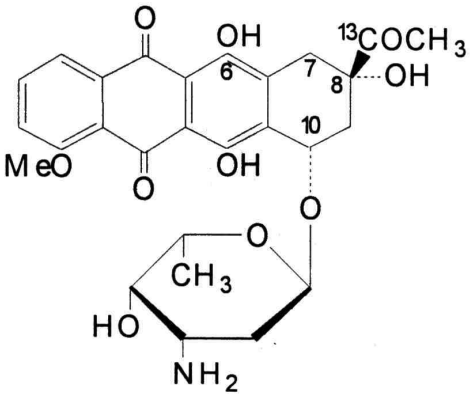
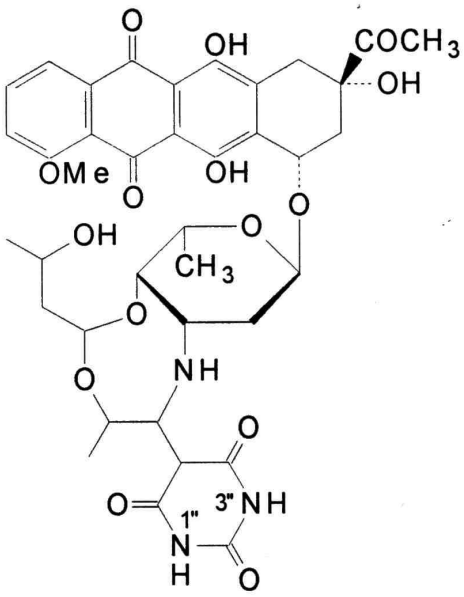
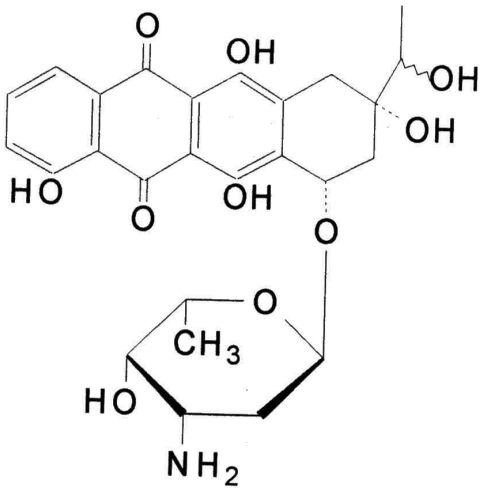
Secondary metabolites from *Streptomyces peucetius*

Anthracycline antibiotics like Adriamycin and Daunomycin which are used in tumor therapy









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Genus: ***Streptomyces*** **FH 2453**
Species: ***peucetius***
Numbers in other collections: ATCC 29050

Morphology:

	G	R
ISP 2	good	orange
	A	SP
	red	yellow
	G	R
ISP 3	good	yellow
	A	SP
	white	yellow
	G	R
ISP 4	good	orange
	A	SP
	orange	none
	G	R
ISP 5	good	orange
	A	SP
	red	none
	G	R
ISP 6	good	orange
	A	SP
	none	none
	G	R
ISP 7	good	orange
	A	SP
	red	yellow

Spore chains: RA Spore surface: smooth
Sporangia: Fragmentation:

Melanoid pigment: - - - -
NaCl resistance: 2,5 %
Lysozyme resistance: -
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:

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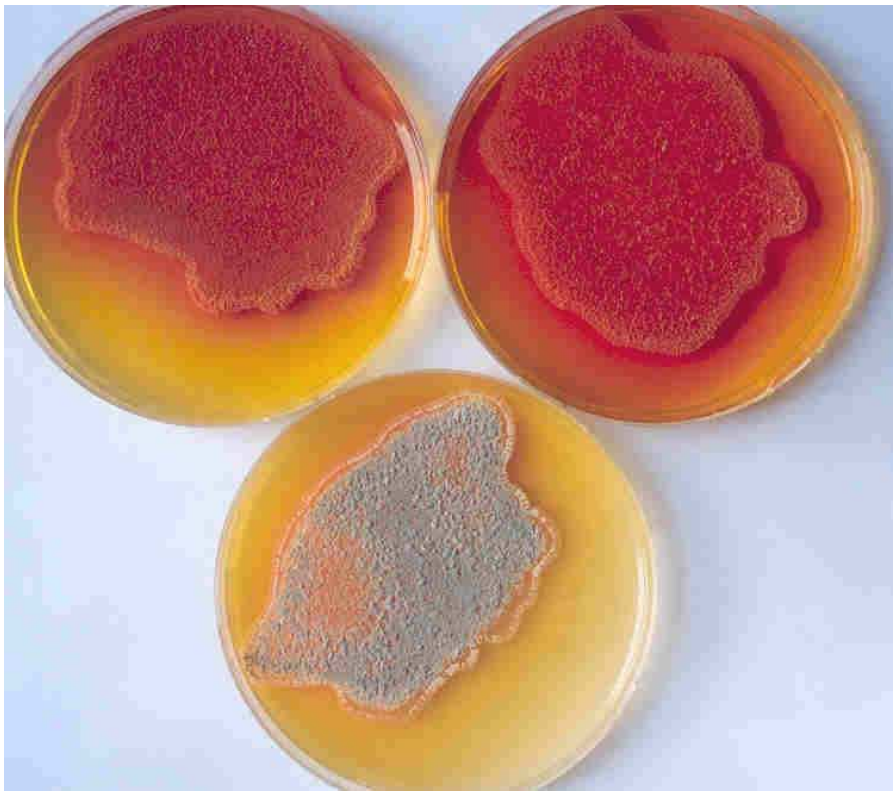

Streptomyces peucetius
A and B – Agar plates medium 5006, 5265 and 5315

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Streptomyces peucetius
C and D – Microplate with ISP- and melanin media

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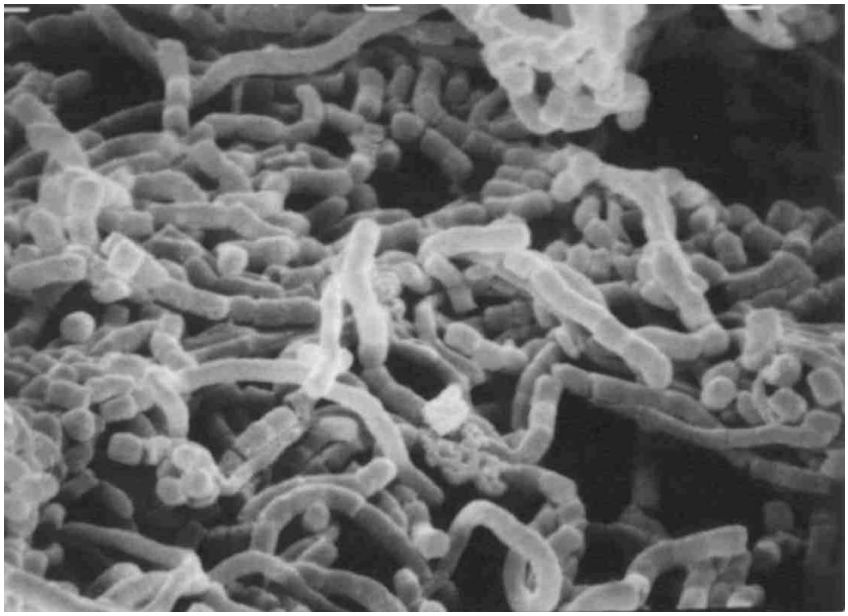

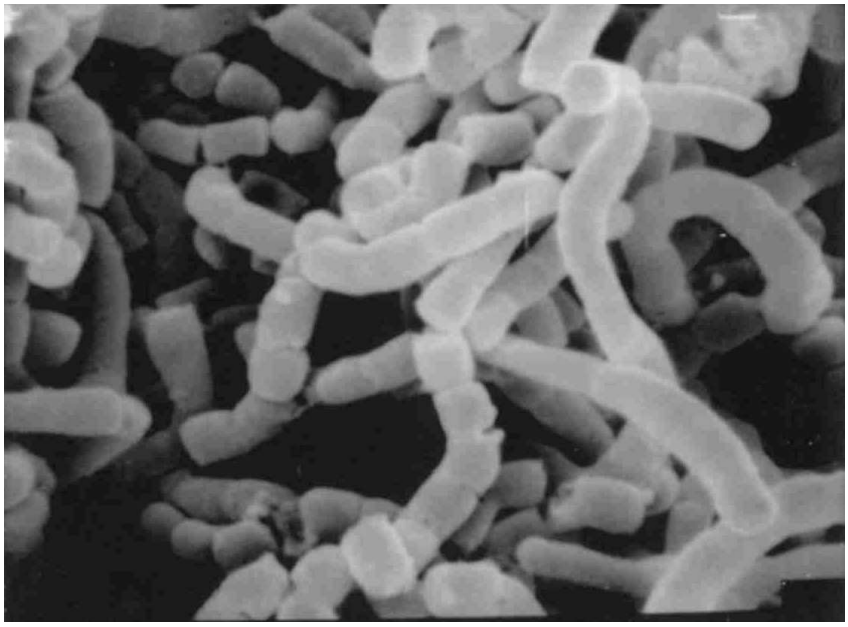

Streptomyces peucetius
Spore chain morphology and spore surface in SEM
E x 5.000 F x 10.000

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Genus: Streptomyces **FH 1777**
Species: peucetius
Numbers in other collections: ATCC 21354

Morphology:

	G	R
ISP 2	good	salmon orange
	A	SP
	none	maize yellow
	G	R
ISP 3	good	salmon orange
	A	SP
	none	maize yellow
	G	R
ISP 4	good	maize yellow
	A	SP
	none	maize yellow
	G	R
ISP 5	good	maize yellow
	A	SP
	none	maize yellow
	G	R
ISP 6	good	maize yellow
	A	SP
	none	maize yellow
	G	R
ISP 7	good	maize yellow
	A	SP
	none	maize yellow

Spore chains: Spore surface:
Sporangia: Fragmentation:

Melanoid pigment: - - - -
NaCl resistance: 2,5 %
Lysozyme resistance: -
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: Strain produces Dihydrodaunomycin

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

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Genus: Streptomyces **FH 1778**
Species: peucetius
Numbers in other collections: ATCC 27952

Morphology:

	G	R
ISP 2	good	salmon orange
	A	SP
	none	maize yellow
	G	R
ISP 3	good	salmon orange
	A	SP
	none	maize yellow
	G	R
ISP 4	good	beige
	A	SP
	none	none
	G	R
ISP 5	good	salmon orange
	A	SP
	none	maize yellow
	G	R
ISP 6	good	beige
	A	SP
	none	none
	G	R
ISP 7	good	salmon orange
	A	SP
	none	maize yellow

Spore chains: Spore surface:
Sporangia: Fragmentation:

Melanoid pigment: - - - -
NaCl resistance: 5 %
Lysozyme resistance: -
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: Strain produces Adriamycin

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

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Streptomyces peucetius
Microplate with ISP- and melanin media
FH 1777 (upper) and FH 1778 (lower)

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