

Name: ***Streptomyces noursei***

Authors: Brown et al. 1953

Status: Approved Lists

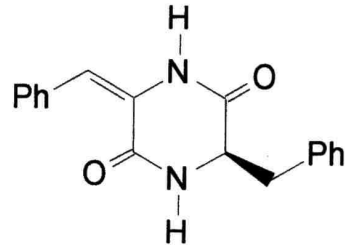
Reference(s): Int. J. Syst. Bacteriol. 30:394 (AL)

Risk group: 1 (German classification)

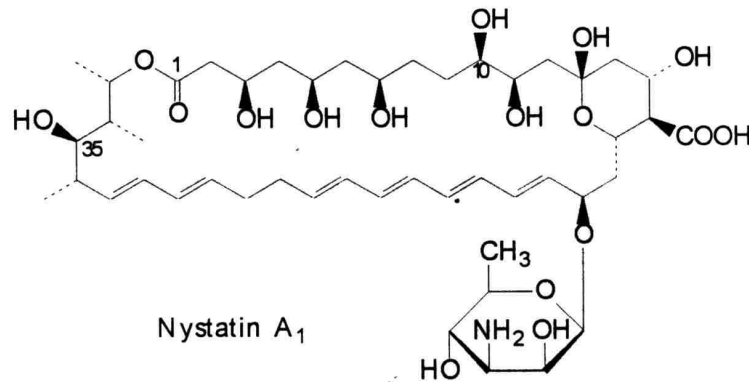
Type strain: ATCC 11455, DSM 40635

Secondary metabolites of *Streptomyces noursei*

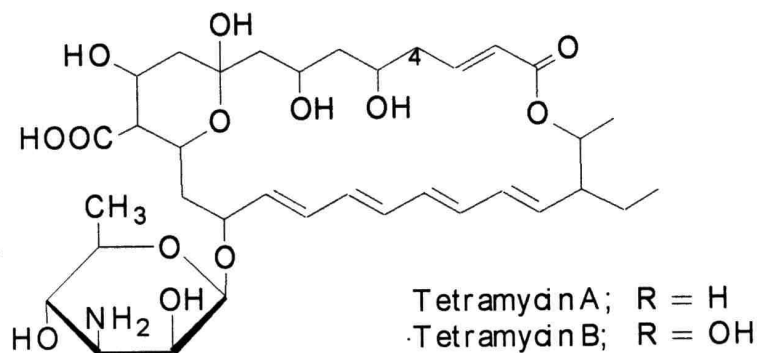
Piperazin



Nystatin, polyene antibiotic, antifungal active



Tetramycine, polyene antibiotic, active against fungi and yeasts



Genus: *Streptomyces*

FH 2105

Species: *noursei*

Numbers in other collections: DSM 40635

Morphology:

	G	R
<u>ISP 2</u>	good	black
	A	SP
	grey	none
	G	R
<u>ISP 3</u>	good	grey
	A	SP
	light grey	none
	G	R
<u>ISP 4</u>	good	grey
	A	SP
	grey	brown
	G	R
<u>ISP 5</u>	good	grey green
	A	SP
	grey	none
	G	R
<u>ISP 6</u>	good	grey
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	beige
	A	SP
	grey	none

Spore chains: Sp

Spore surface: spiny

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 5%

Lysozyme resistance: -

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °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:



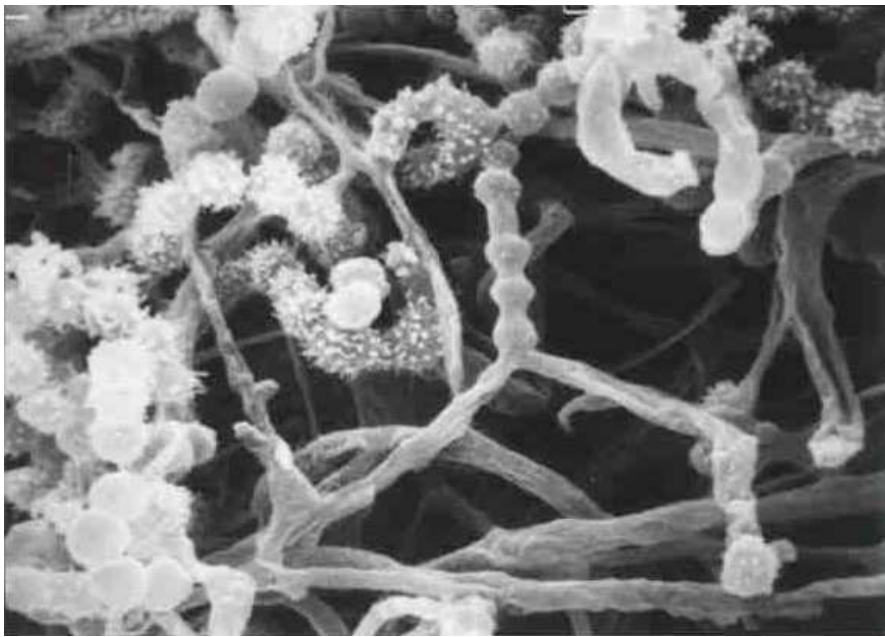
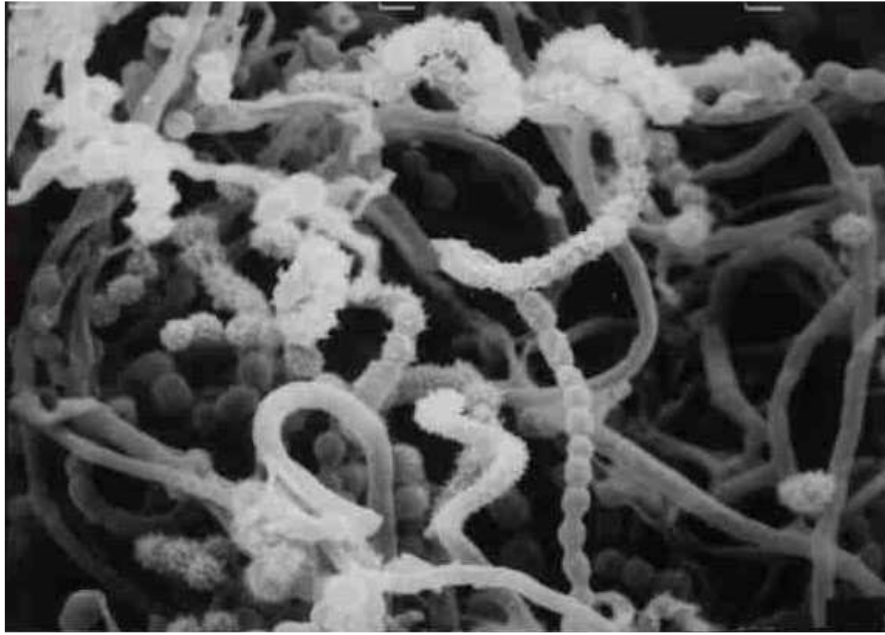
Streptomyces noursei

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



Streptomyces noursei

C and D – Microplate with ISP and melanin media



Streptomyces noursei

Spore chain morphology and spore surface in SEM

E x 5.000 F x 7.500

Genus: *Streptomyces*

FH 1352

Species: *noursei*

Numbers in other collections: ATCC 11455

Morphology:

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

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 2,5%

Lysozyme resistance: -

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °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: Strain produces Nystatin



Streptomyces noursei

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



Streptomyces noursei

C – Microplate with ISP and melanin media