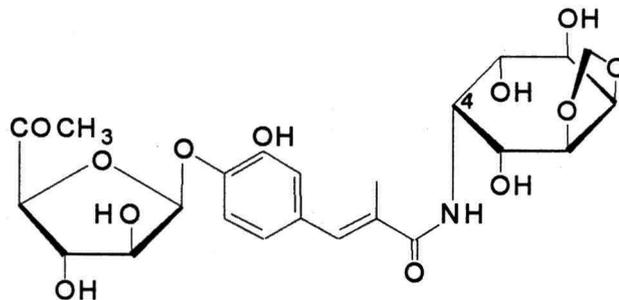


Name:	<i>Rhodococcus equi</i>
Authors:	(Magnusson 1923) Goodfellow and Alderson 1977
Status:	Approved Lists
Reference(s):	Int. J. Syst. Bacteriol. 30:356 (AL)
Risk group:	2 (German classification)
Type strain:	ATCC 25729, ATCC 6939, DSM 20307, IMET 7467, NCTC 1621
Other names:	<i>Corynebacterium equi</i> (basonym), <i>Nocardia restricta</i> (subjective synonym)



Secondary metabolites from *Rhodococcus equi*
Hygromycin A, active against gram-positive and –negative bacteria, endamoeba, and leptospira, also anthelmintic. Also produced by *Streptomyces hygrosopicus* and *noboritoensis*.



Genus: *Rhodococcus* **FH 2582**
Species: *equi*
Numbers in other collections: **DSM 20307**

Morphology:

	G	R
<u>ISP 2</u>	good	pastel orange
	A	SP
	none	none
	G	R
<u>ISP 3</u>	sparse	
	A	SP
	G	R
<u>ISP 4</u>	sparse	
	A	SP
	G	R
<u>ISP 5</u>	good	pastel orange
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	pastel orange
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	pastel orange
	A	SP
	none	none

Spore chains:

Spore surface: smooth

Sporangia: multilocular

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
-	-	-	-	-	-	-	-	+	-	-
2+	3-	4+	5-	6+	7+	8-	9+	10-	11+	12+
13-	14-	15-	16+	17+	18-	19-	20-			



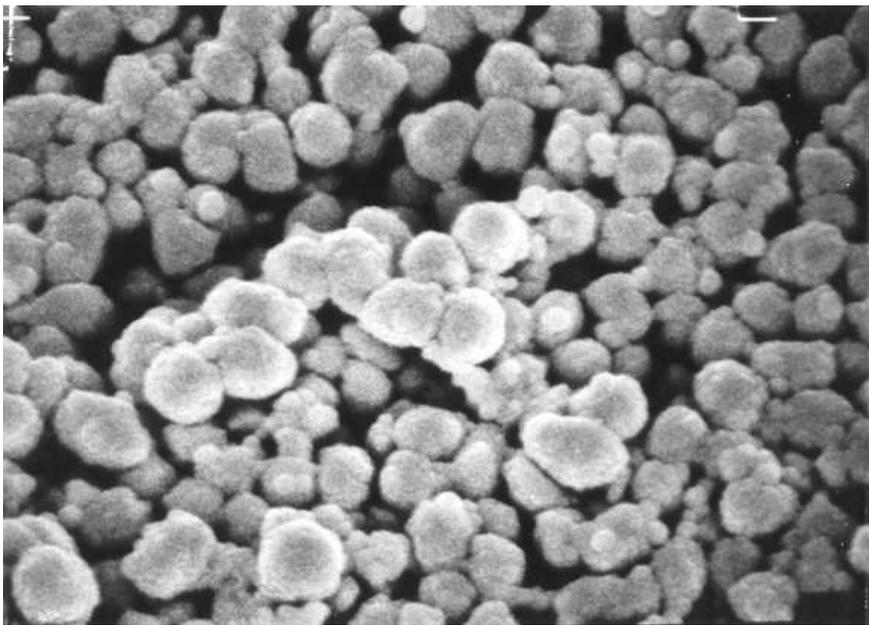
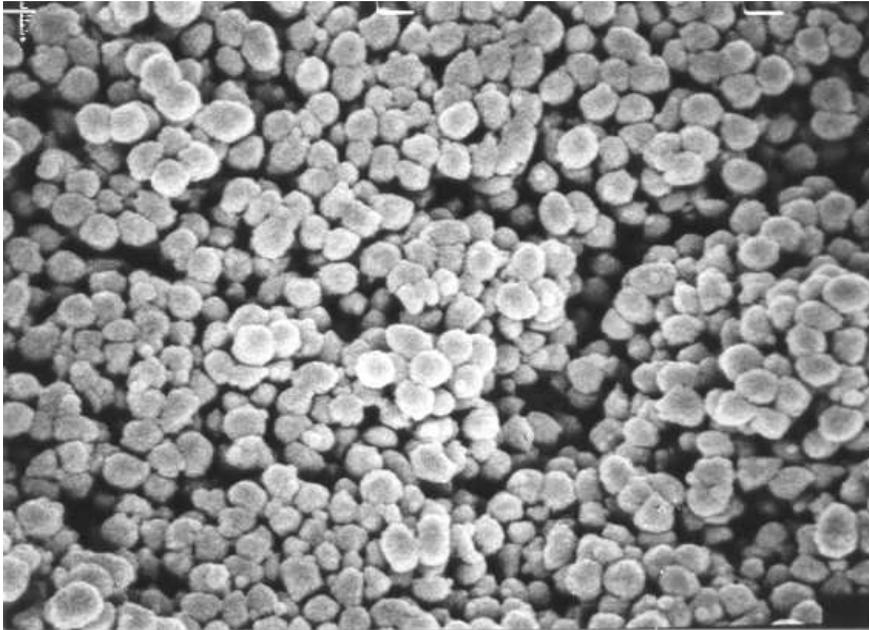
Rhodococcus equi

A and B – Agar plates medium 5006, 5265, 5315, 5317 and 5323



Rhodococcus equi

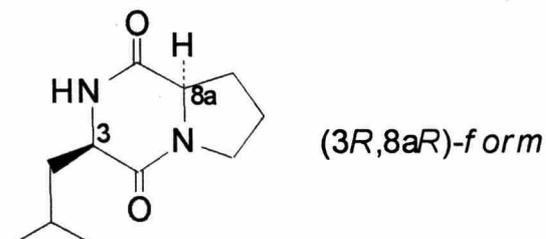
C and D – Agar plates medium 5318, 5322, 5337 with and without tyrosine



Rhodococcus equi
Coccoid form in SEM
E x 5000 F x 10.000

Genus	<i>Rhodococcus</i>
Species	<i>equi</i>
Subspecies	
Author	(Magnusson 1923) Goodfellow and Anderson 1979
Reclassification Status	Type strain of <i>Nocardia restricta</i> comb. nov.
Type species	ATCC 14887
Hazard group	2

Secondary metabolites from *Rhodococcus equi* (*Nocardia restricta*) Gancidin, diketopeperazin antibiotic with antifungal and antitumor activity. Also produced by *Streptomyces gancidicus*, from fungi and the sponge *Tedania ignis*.



Genus: *Rhodococcus*

FH 2544

Species: *equi*

Numbers in other collections: **ATCC 14887**

Nocardia restricta (heterotypic Synonym)

Morphology:

<u>ISP 2</u>	G	R
	good	signal orange
	A	SP
<u>ISP 3</u>	none	none
	G	R
	good	colorless
<u>ISP 4</u>	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	colorless
	A	SP
	none	none
<u>ISP 6</u>	G	R
	good	signal orange
	A	SP
<u>ISP 7</u>	none	none
	G	R
	good	signal orange
	A	SP
	none	none

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation: +

Melanoid pigment: - - - -

NaCl resistance: 5 %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 30 °C

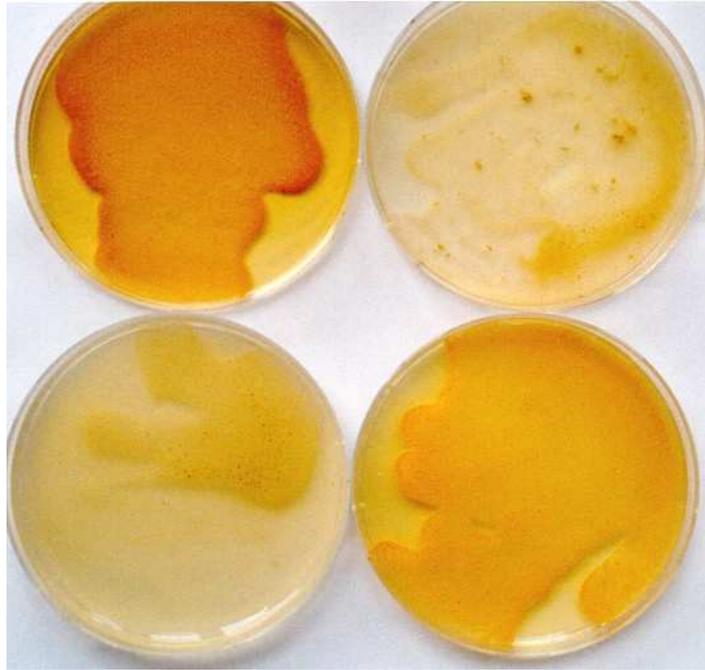
Carbon utilization:

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

Enzymes:

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H ₂ S
-	+	+	+	-	-	+	+	-	-	-

Comments:



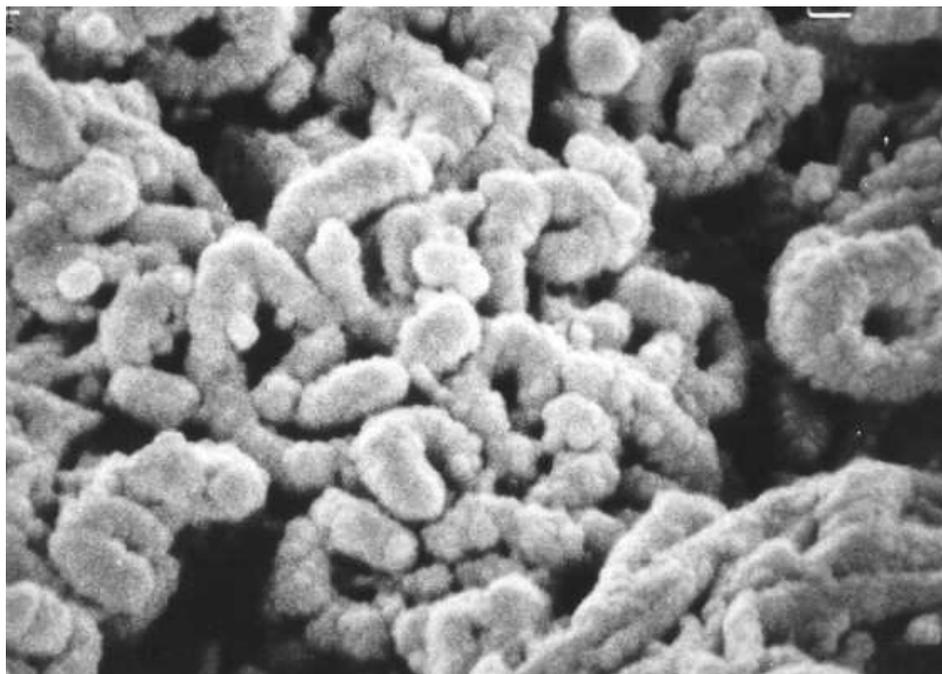
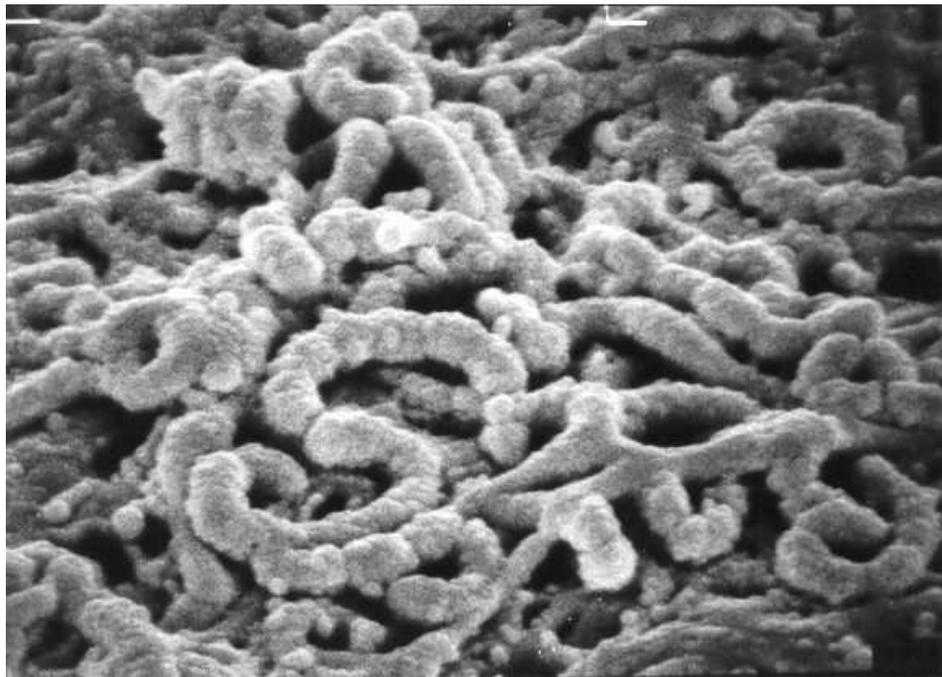
Rhodococcus equi

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



Rhodococcus equi

C and D –Agar plates medium 5318, 5322, 5337 with and without tyrosine



Rhodococcus equi

Scanning electron micrographs of branched filaments which fragment into rods and cocci

E x 7.500 F x 10.000