

Name: ***Rhodococcus rhodochrous***

Authors: (Zopf 1891) Tsukamura 1974 emend. Rainey et al. 1995

Status: Approved Lists

Reference(s): Int. J. Syst. Bacteriol. 30:356 (AL)

Risk group: 1 (German classification)

Comment: emend. description: IJSB 45:102*

Type strain: ATCC 13808, DSM 43241, IMET 7374, NCIB 11147, NCTC 10210

Other names: *Rhodococcus roseus* (subjective synonym)

Lit.: Zopf, W. 1891.
Über Ausscheidung von Fettfarbstoffen Lipochromen seitens gewisser Spaltpilze.
Ber. Dtsch. Bot. Ges. 9:22-29.
Goodfellow, M. and Alderson, G. 1977
The actinomycete-genus *Rhodococcus*: a home for the "rhodochrous" complex.
J. Gen. Microbiol. 100: 99-122

Genus: *Rhodococcus*

FH 2198

Species: *rhodochrous*

Numbers in other collections: ATCC 21198

Morphology:

	G	R
<u>ISP 2</u>	good	orange red
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	rose
	A	SP
	none	none
	G	R
<u>ISP 4</u>	good	rose
	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	rose
	A	SP
	none	red

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation: +

Melanoid pigment: - - - -

NaCl resistance:

Lysozyme resistance:

pH: Value- Optimum-

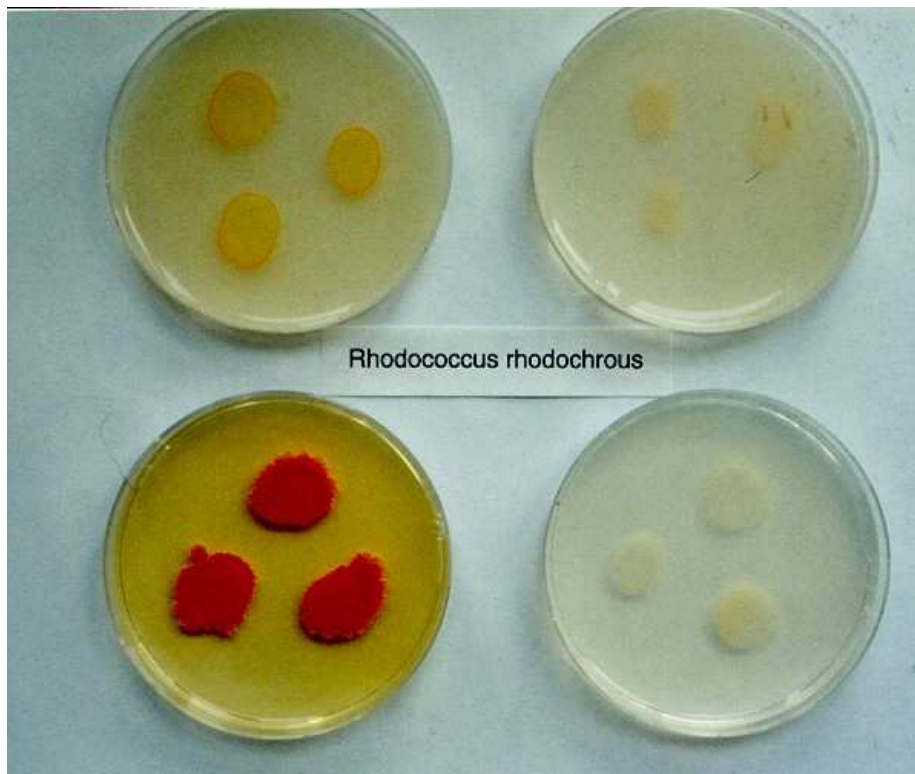
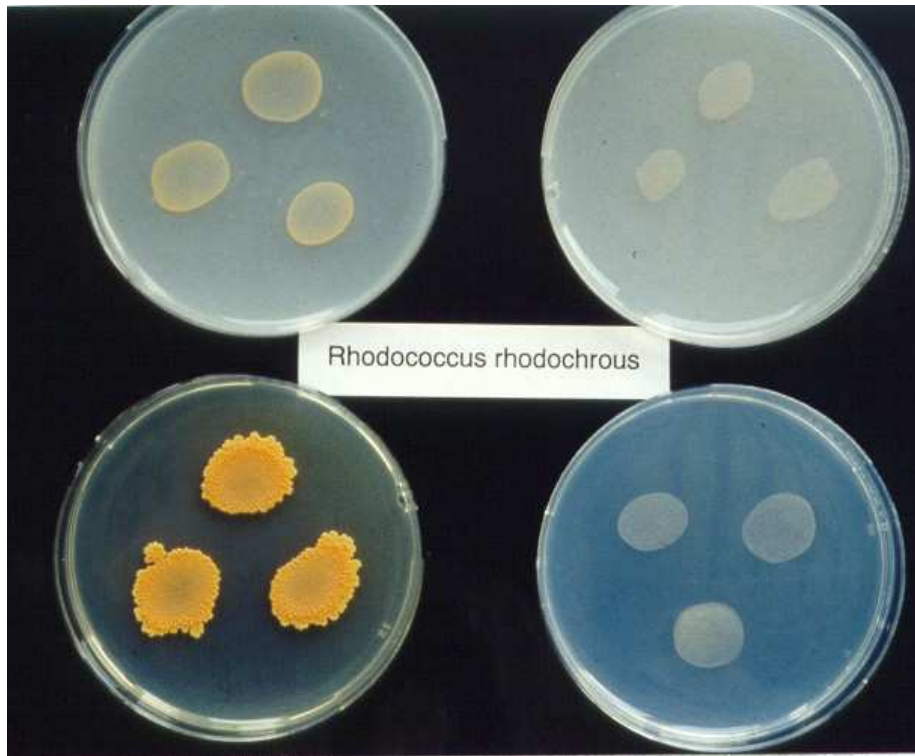
Temperature : Value- Optimum- 30 °C

Carbon utilization:

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

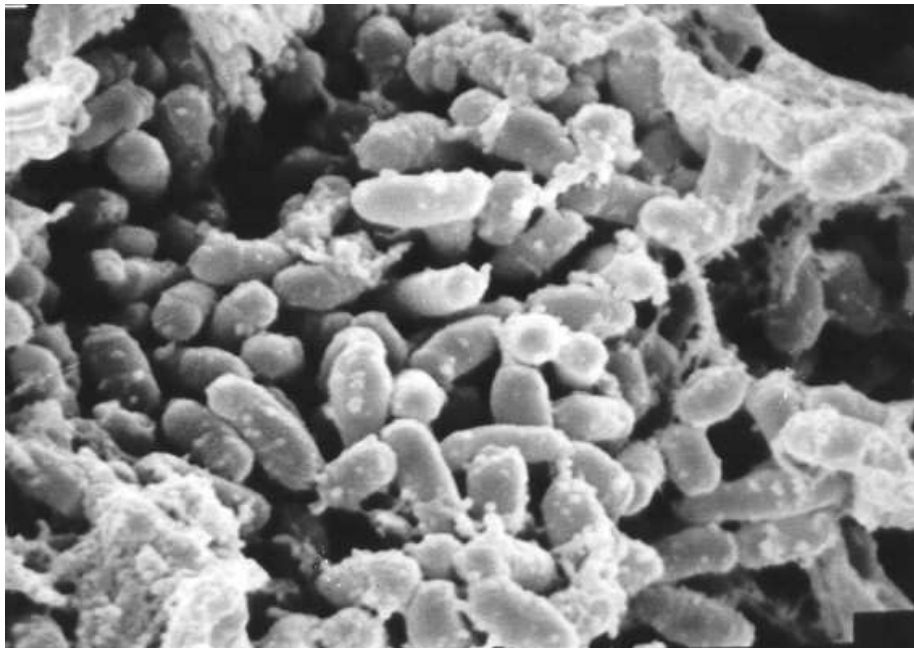
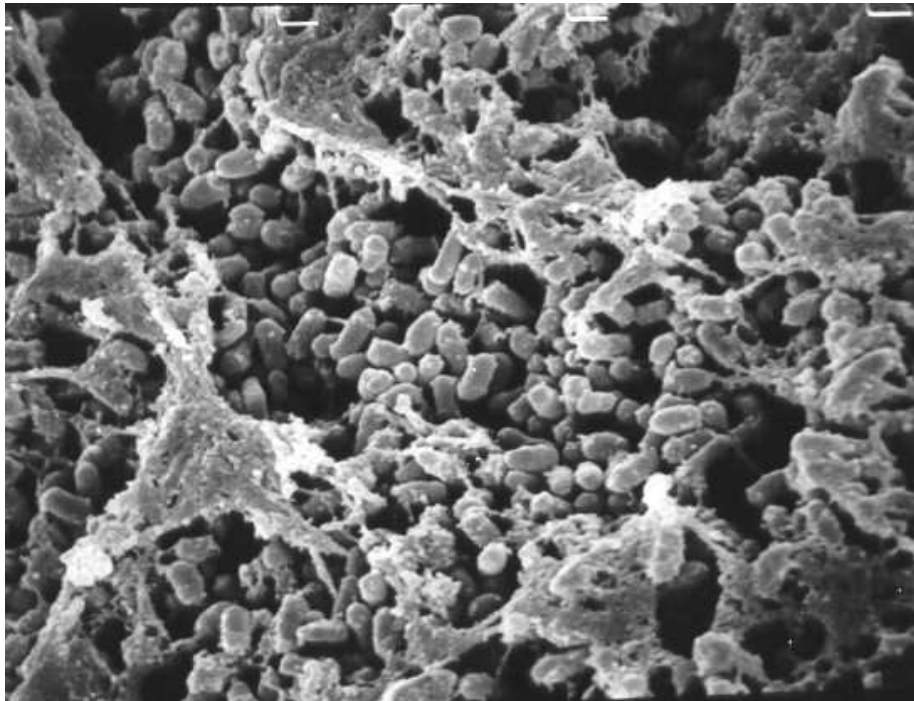
Enzymes:

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



Rhodococcus rhodochrous

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



Rhodococcus rhodochrous

Fragmentation of filaments into rods and cocci (SEM)

C x 3.500 D x 7.500

Genus	<i>Rhodococcus</i>
Species	<i>rhodochrous</i>
Subspecies	
Author	
Reclassification Status	← <i>Rhodococcus roseus</i> subj. synonym
Type species	ATCC 271, DSM 43274
Hazard group	1

Genus: *Rhodococcus*

FH 2598

Species: *roseus*

Numbers in other collections: ATCC 271

Synonym of *Rhodococcus rhodochrous*

Morphology:

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

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation: +

Melanoid pigment: - (+) (+)- -

NaCl resistance: 0 %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 37°C

Carbon utilization:

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

Enzymes:

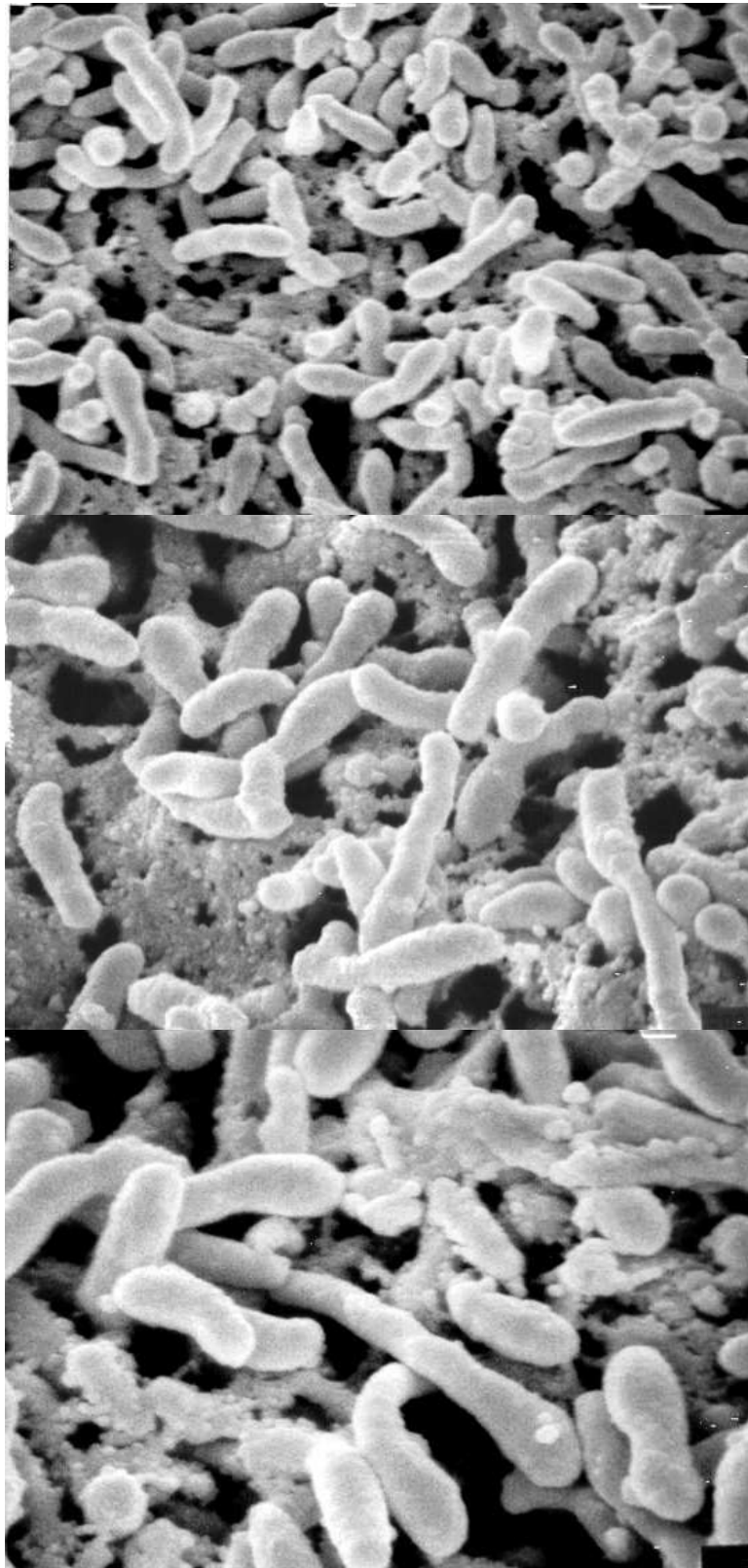
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
-	-	-	-	-	-	-	-	-	-	-
2-	3-	4+	5-	6+	7+	8+	9-	10-	11-	12-
13-	14-	15-	16+	17+	18-	19-	20-			



Rhodococcus rhodochrous

A – Agar plates 5265, 5315, 5317 and 5323

B – Agar plates 5006, 5318, 5322, 5337 with and without tyrosine



Rhodococcus rhodochrous

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

C x 5.000 D x 7.500 F x 10.000

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