

Name: *Gordonia sputi*

Authors: (Tsukamura 1978) Stackebrandt et al. 1989
emend. Riegel et al. 1994

Status: New Combination, Corrected Name

Reference(s): Int. J. Syst. Bacteriol. 39:371 (validation list)

Risk group: 2 (German classification)

Comment: emend. description: IJSB 44:766*; nom. corrig.:
IJSB 47:485*; *Gordona sputi* [sic]

Type strain: ATCC 29627, ATCC 33610, DSM 43896,
IMET 7569

Other names: *Rhodococcus chubuensis* (subjective synonym),
Rhodococcus obuensis (subjective synonym),
Rhodococcus sputi (basonym)

Stackebrandt, E., J. Smida and M.D. Collins. 1988
Evidence of phylogenetic heterogeneity within the genus *Rhodococcus*,
revival of the genus *Gordonia* Tsukamura.
J. Appl. Microbiol. 34: 341-348



Genus: *Gordonia*

FH 2813

Species: *sputi*

Numbers in other collections: **DSM 43896**

Morphology:

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

Spore chains:

Spore surface:

Sporangia: -

Fragmentation: -

Melanoid pigment: - - - -

NaCl resistance: 2.5 %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum- 37°C

Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)

Enzymes:

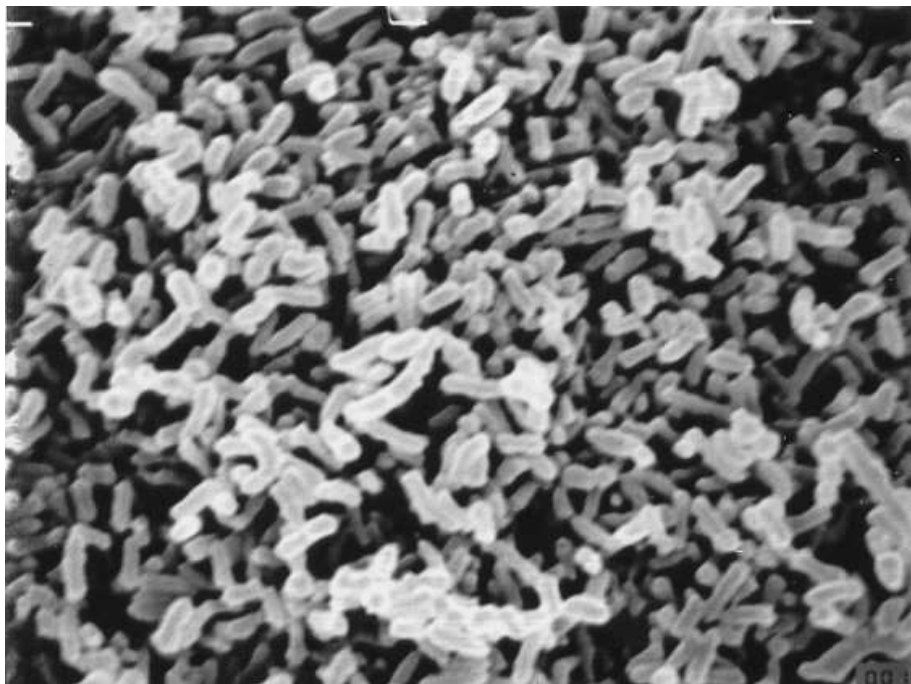
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
-	+	+	-	-	-	-	+	-	-	-
2+	3+	4+	5+	6+	7+	8-	9-	10-	11+	
12+	13+	14-	15-	16+	17+	18-	19-	20-		
Nit	Pyz	Pyr	Pal	βGur	βGal	αGlu	βNag	Esc	Ure	Gel
+	-	-	+	-	-	+	-	-	+	-
Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg			
-	-	-	-	-	-	-	-			



Gordonia sputi

A – Agar plates medium 5006, 5265 and 5315

B – Microplate with ISP- and melanin media



Gordonia sputi
Rod formation (SEM)
C x 7.500 D x 5.000

Genus	<i>Gordonia</i>
Species	<i>sputi</i>
Subspecies	
Author	
Synonym	← <i>Rhodococcus chubuensis</i>
Status	subj. synonym
Type species	ATCC 33609
Hazard group	2

Genus: *Gordonia* **FH 2600**

Species: *sputi*

Numbers in other collections: **ATCC 33609**

Synonym of *Rhodococcus chubuensis*

Morphology:

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

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation: +

Melanoid pigment: - - - -

NaCl resistance: 0 %

Lysozyme resistance:

pH: Value- Optimum-

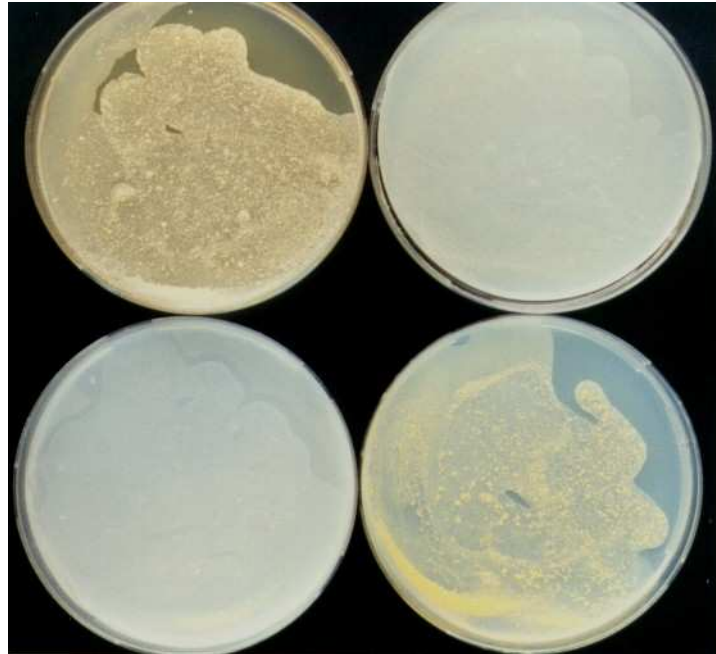
Temperature : Value- Optimum- 37°C

Carbon utilization:

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

Enzymes:

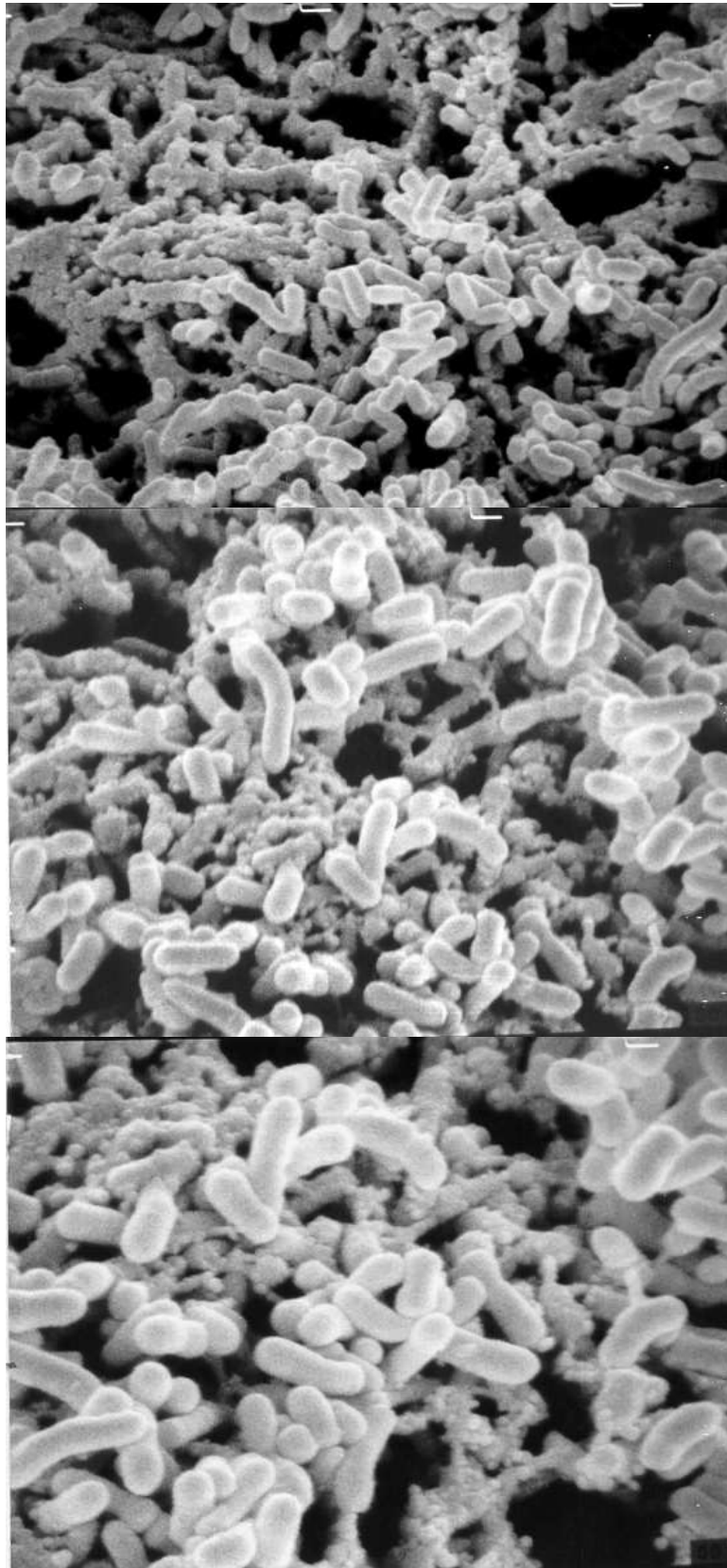
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
-	-	-	-	-	-	-	-	-	-	-



Gordonia sputi

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

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



Gordonia sputi

Branched filaments which fragment into rods and cocci (SEM)

C x 5.000 D x 7.500 E x 10.000