

Name: ***Gordonia bronchialis***

Authors: (Tsukamura 1971) Stackebrandt et al. 1989

Status: New Combination, Corrected Name

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

Risk group: 2 (German classification)

Comment: nom. corrig.: IJSB 47:485*;
Gordona bronchialis [sic]

Type strain: ATCC 25592, DSM 43247, IMET 7370,
NCTC 10667, Tsukamura 3410

Other names: *Rhodococcus bronchialis* (basonym)

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

Genus: *Gordonia*

FH 2811

Species: *bronchialis*

Numbers in other collections: DSM 43247

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>	good	pastel orange
	A	SP
	none	none
<u>ISP 6</u>	G	R
	good	pastel orange
	A	SP
<u>ISP 7</u>	none	none
	G	R
	good	pastel orange

Spore chains:

Spore surface:

Sporangia: -

Fragmentation: -

Melanoid pigment: - - - -

NaCl resistance: 2.5 %

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

Optimum-

Carbon utilization:

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

Enzymes:

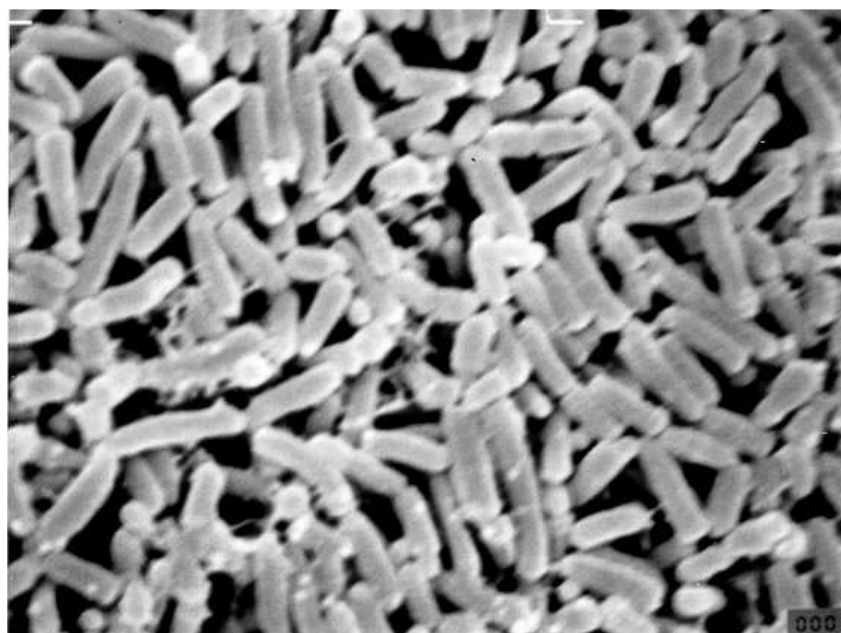
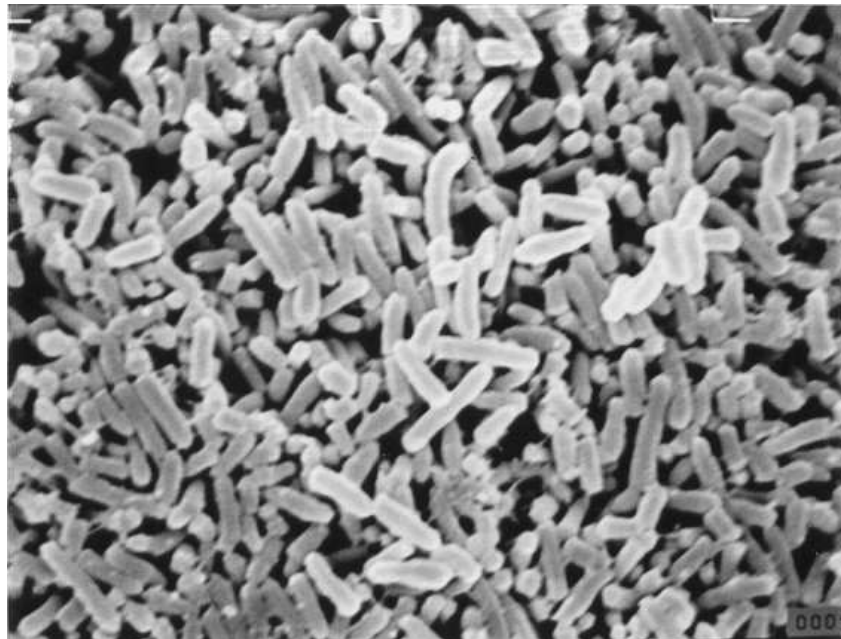
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H ₂ S
-	+	+	(+)	-	-	(+)	-	(+)	-	-
2+	3-	4-	5-	6+	7+	8+	9-	10-	11+	
12+	13-	14-	15-	16+	17+	18-	19-	20-		
Nit	Pyz	Pyr	Pal	βGur	βGal	αGlu	βNag	Esc	Ure	Gel
+	-	(+)	+	-	-	+	-	-	+	-
Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg			
+	-	-	-	-	-	-	-			



Gordonia bronchialis

A – Agar plates medium 5006, 5265 and 5315

B – Microplate with ISP- and melanin media



Gordonia bronchialis

Fragmentation of vegetative mycelium into rods (SEM)

C x 7.500 D x 5.000