

Name: *Gordonia paraffinivorans*

Authors: Xue et al. 2003

Status: New Species

Reference(s): Int. J. Syst. Evol. Microbiol. 53:1645

Risk group: 1 (German classification)

Type strain: DSM 44604

Author(s) Xue, Y., Sun, X., Zhou, P., Liu, R., Liang, F., Ma, Y.
Title *Gordonia paraffinivorans* sp. nov., a hydrocarbon-degrading actinomycete isolated from an oil-producing well.
Journal Int. J. Syst. Evol. Microbiol.
Volume 53
Page(s) 1643-1646
Year 2003

Genus: *Gordonia* **FH 6436**
Species: *paraffinivorans*
Numbers in other collections: **DSM 44604**

Morphology:

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

Melanoid pigment: - - - -

NaCl resistance: %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

Carbon utilization:

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

Enzymes:

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
-	-	+	+	-	-	+	-	+	+	-

Comments: Pure orange on medium 5429 and red orange on 5475



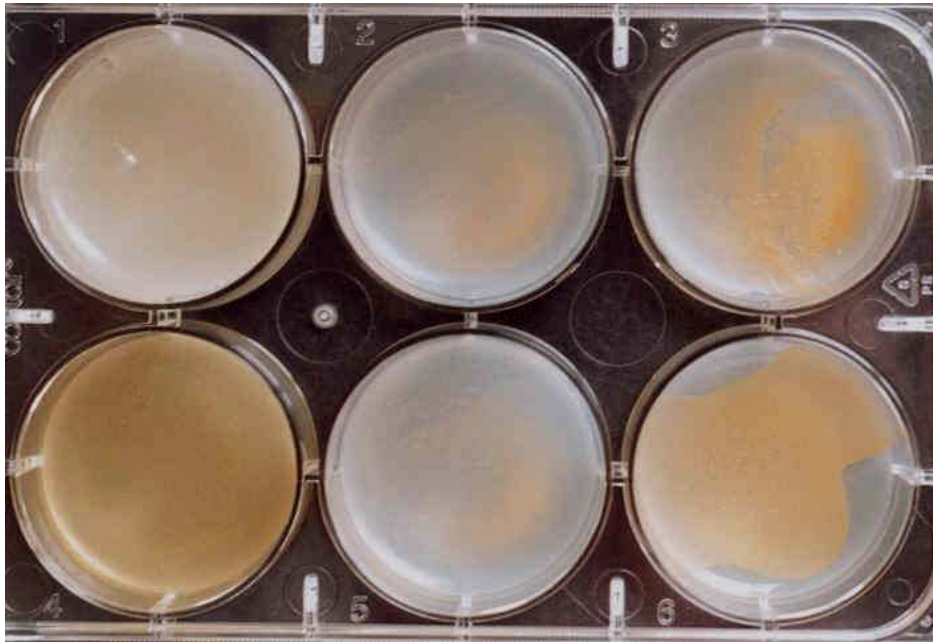
Gordonia paraffinivorans

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



Gordonia paraffinivorans

C and D – Agar plates medium 5429 and 5475



Gordonia paraffinivorans

E – Microplate with ISP- and melanin media

F – Microplate for carbo hydrate utilization



Gordonia paraffinivorans
G – Api Zym (upper) and Coryne