

Genus	<i>Arthrobacter</i>
Species	<i>oxydans</i>
Subspecies	
Author	Sgueros 1954
Reclassification	
Status	valid
Type species	ATCC 14358, DSM 20119, IMET 10684, NCIB 9333
Hazard group	1
Author(s)	Sgueros, P. L.
Title	Microbial transformation of the tobacco alkaloids. I. Cultural and morphological characteristics of a nicotinophile.
Journal	J. Bacteriol.
Volume	69
Page(s)	28-37
Year	1957

Fatty acid pattern

14 : 0	Iso	1,0
14 : 0		1,0
15 : 0	Iso	11,0
15 : 0	Anteiso	33,0
16 : 0	Iso	9,0
16 : 0		6,0
17 : 1	Anteiso	5,0
17 : 0	Iso	4,0
17 : 0	Anteiso	22,0
18 : 0		2,0

Genus: *Arthrobacter*

FH 2764

Species: *oxydans*

Numbers in other collections: DSM 20119

Morphology:

<u>ISP 2</u>	G good A none G	R ivory SP none R
<u>ISP 3</u>	good A none G	light ivory SP none R
<u>ISP 4</u>	none A	SP
<u>ISP 5</u>	G none A	R SP
<u>SP 6</u>	G none A	R SP
<u>ISP 7</u>	G none A	R SP

NaCl resistance:

0%

Temperature:

Value- °C Optimum- 28°C

Carbon utilization:

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

Enzymes:

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



Arthrobacter oxydans

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

C – Microplate with ISP- and melanin media