

Name: ***Arthrobacter psychrochitiniphilus***

Authors: Wang et al. 2009

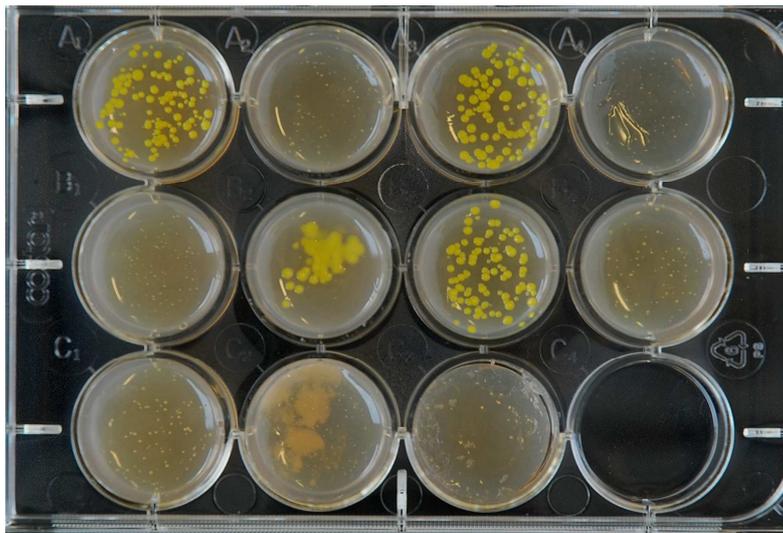
Status: sp. nov. (VP)

Reference: Int. J. Syst. Evol. Microbiol. 59:2762

Type strain: CGMCC 1.6355, GP3, JCM 13874, DSM 23143

Author: Wang F;Gai Y;Chen M;Xiao X;
Title: *Arthrobacter psychrochitiniphilus* sp. nov., a psychrotrophic bacterium isolated from Antarctica

Journal: Int J Syst Evol Microbiol
Volume: 59
Page: 2759-2762
Year: 2009



Carbohydrate utilization

Genus: **Arthrobacter** **FH 8027**

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Species: *psychrochitiniphilus*

Numbers in other collections: DSM 23143

Morphology:

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

Melanoid pigment: - - - -

NaCl resistance: %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 20 °C

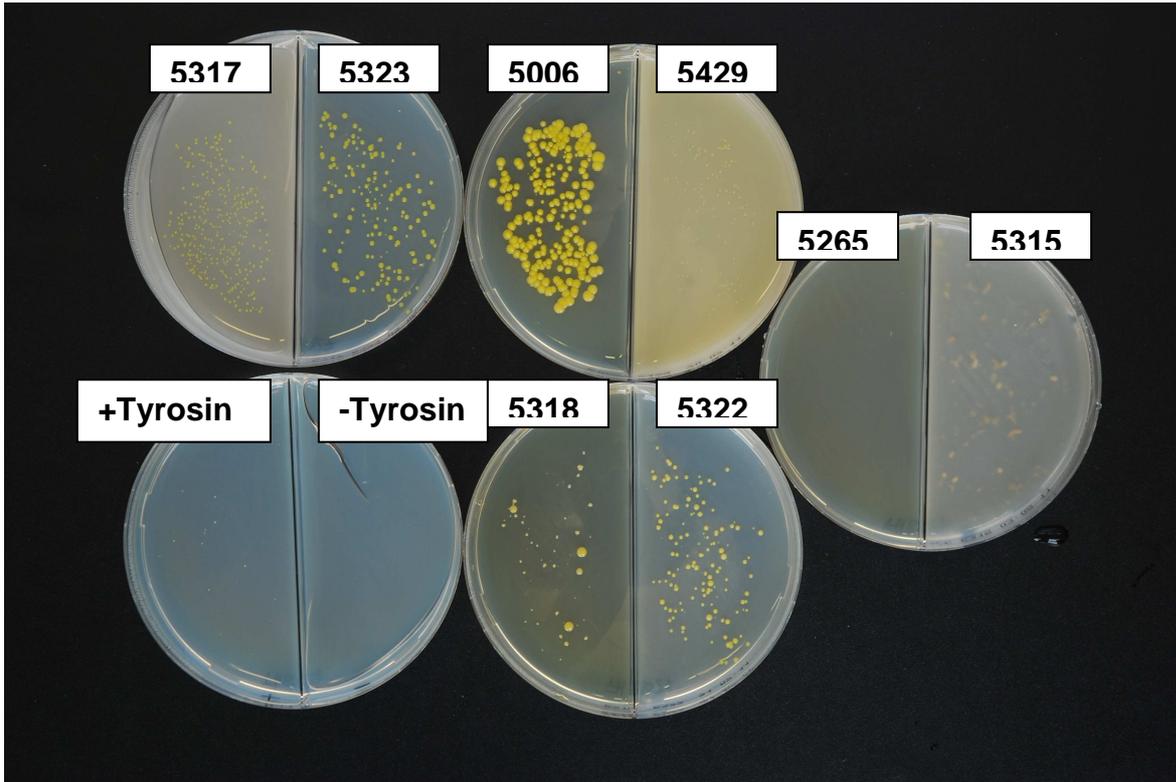
Carbon utilization:

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
-	+	-	-	-	+	+	-	+	-	+
Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg			
(+)	-	-	-	-	-	-	-			

Comments:



Arthrobacter psychrochitiniphilus
Growth on different agar plates



Api coryne (upper) and Zym

Compendium of Actinobacteria from Dr. Joachim M. Wink
University of Braunschweig