

Name: ***Arthrobacter phenanthrenivorans***

Authors: Kallimanis et al. 2009

Status: sp. nov. (VP)

Reference: Int. J. Syst. Evol. Microbiol. 59:278

Type strain: DSM 18606, LMG 23796, Sphe3

Author: Kallimanis A;Kavakiotis K;Perisynakis A;Spröer C;Pukall R;Drainas C;Koukkou AI;

Title: *Arthrobacter phenanthrenivorans* sp. nov., to accommodate the phenanthrene-degrading bacterium *Arthrobacter* sp. strain Sphe3

Journal: Int J Syst Evol Microbiol

Volume: 59

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Year: 2009

Genus: *Arthrobacter* **FH 7018**
Species: *phenanthrenivorans*
Numbers in other collections: DSM 18606

Morphology:

	G	R
<u>ISP 2</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	oyster white
	A	SP
	none	none
	G	R
<u>ISP 4</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	beige
	A	SP
	none	none

Melanoid pigment: - - - -

NaCl resistance: %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

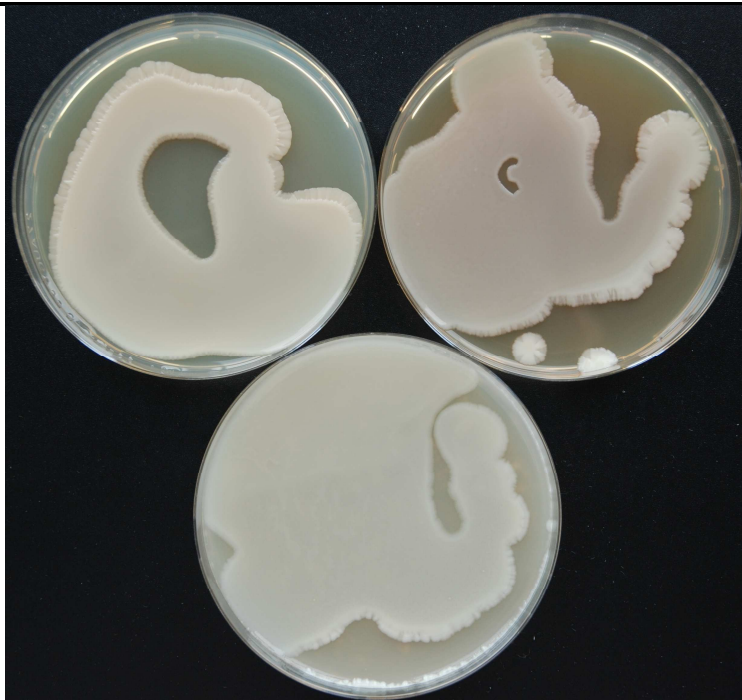
Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
				n.d.					

Enzymes:

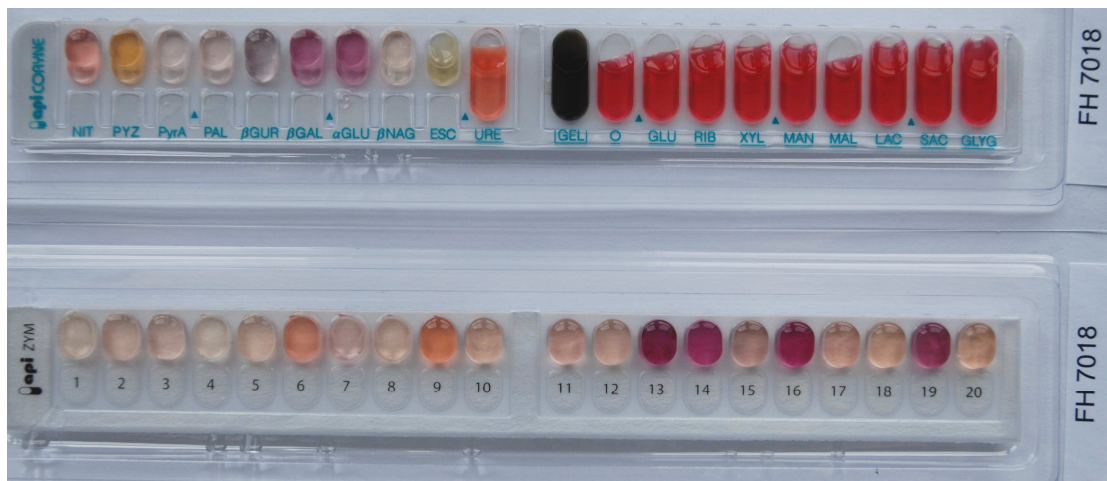
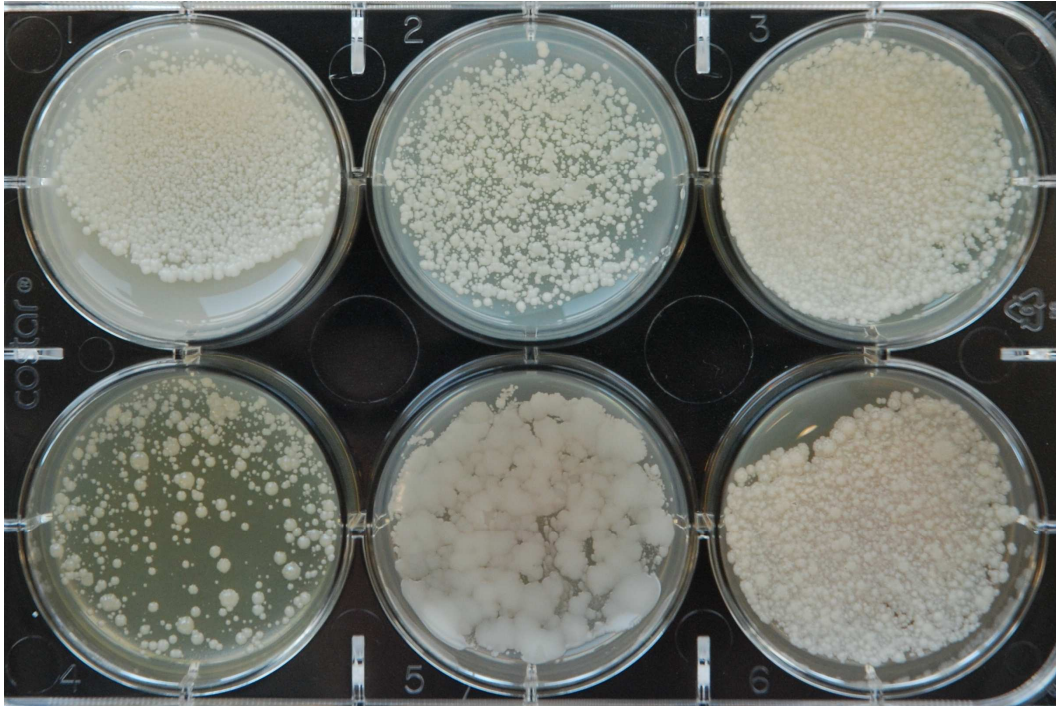
2-	3-	4-	5-	6+	7-	8-	9+	10-	11-	
12-	13+	14+	15-	16+	17-	18-	19+	20-		
Nit	Pyz	Pyr	Pal	βGur	βGal	αGlu	βNag	Esc	Ure	Gel
+	-	-	-	-	+	+	-	-	+	+
Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg			
-	-	-	-	-	-	-	-			

Comments:



Arthrobacter phenanthrenivorans

A and B - Agar plates with medium 5006, 5265 and 5315



Arthrobacter phenanthrenivorans
C – Microplate with ISP and melanin media
D - Api stripes coryne (upper) and zym

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