

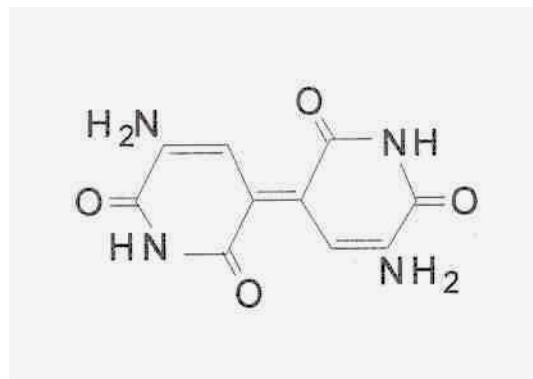
Genus	<i>Arthrobacter</i>
Species	<i>atrocyaneus</i>
Subspecies	
Author	Kuhn and Starr 1960
Reclassification	
Status	valid
Type species	ATCC 13752, CCM 1645, DSM 20127, IMET 10432
Hazard group	1

Fatty acid pattern

14 : 0	Iso	3,0
15 : 0	Iso	11,0
15 : 0	Anteiso	51,0
16 : 0	Iso	16,0
16 : 0		2,5
17 : 0	Iso	2,0
17 : 0	Anteiso	12,7
18 : 0		1,5

Metabolite described in literature

Indigoidin - blue pigment from *A. atrocyaneus* and *A. polychromogenes*



Genus: *Arthrobacter*

FH 2768

Species: *atrocyaneus*

Numbers in other collections: DSM 20127

Morphology:

<u>ISP 2</u>	G	R
	good	ivory
	A	SP
<u>ISP 3</u>	none	none
	G	R
	good	sulfur white
<u>ISP 4</u>	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	oyster white
	A	SP
	none	none
<u>ISP 6</u>	G	R
	good	cadmium yellow
	A	SP
<u>ISP 7</u>	none	none
	G	R
	good	honey yellow
<u>ISP 7</u>	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	colorless
	A	SP
	none	yes

NaCl resistance:

Temperature: Value- °C Optimum- 28°C

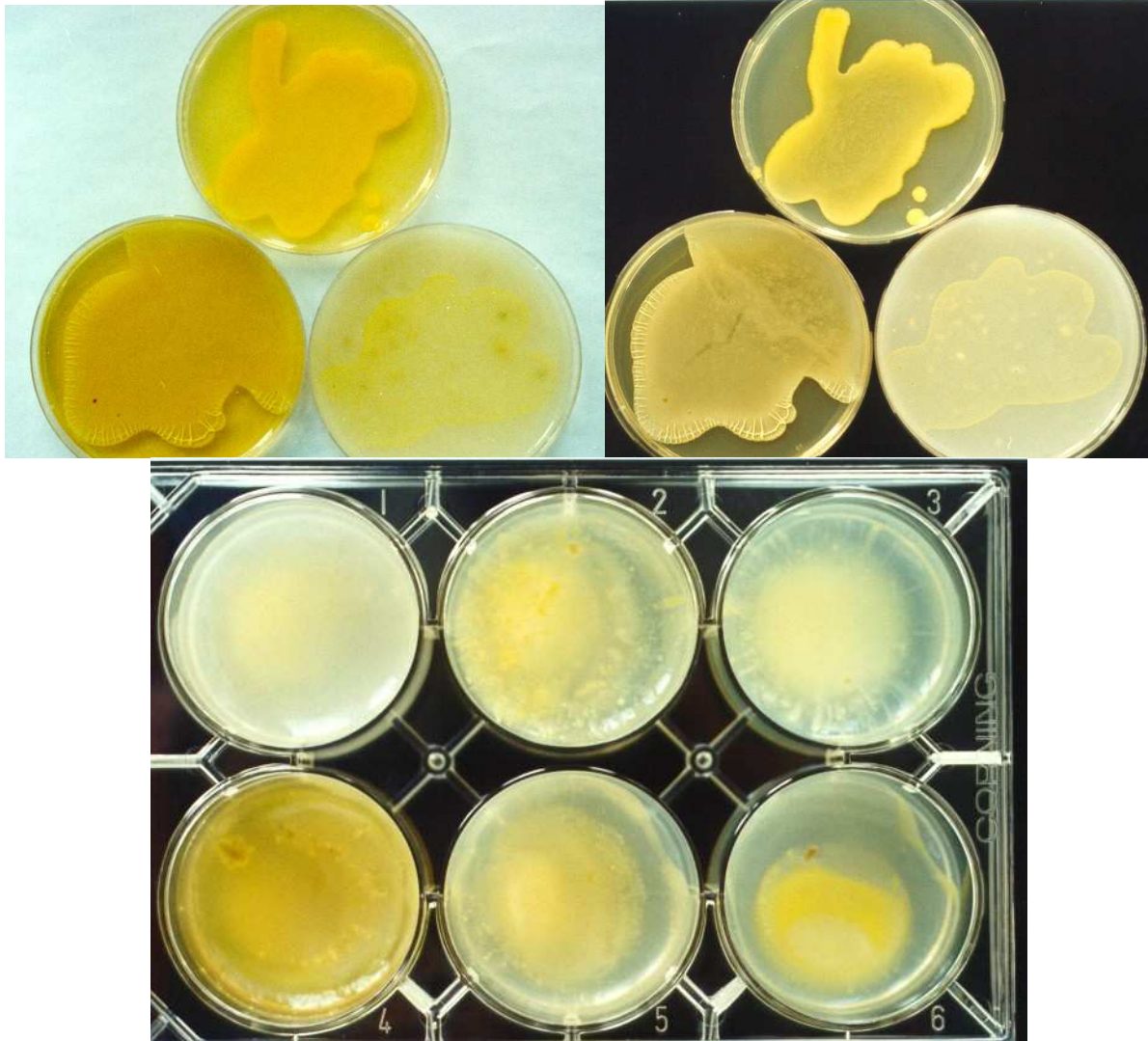
Carbon utilization:

	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				
	+	+	+	+	+	-	-	-				

Comments:



Arthrobacter atrocyaneus

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

C – Microplate with ISP and melanin media