

Genus *Arthrobacter*  
Species *castelli*  
Subspecies

Author Heyman et al. 2005  
Reclassification  
Status sp. nov.

Type species DSM 16402, LMG 22283

Hazard group 2

Author(s) Heyrman, J., Verbeeren, J., Schumann, P., Swings, J., De Vos, P.

Title Six novel *Arthrobacter* species isolated from deteriorated mural paintings.

Journal Int. J. Syst. Evol. Microbiol.

Volume 55

Page(s) 1457-1464

Year 2005



**Genus:** *Arthrobacter*

**FH 6564**

**Species:** *castelli*

**Numbers in other collections:** DSM 16402

**Morphology:**

	G	R
<u>ISP 2</u>	good	honey yellow
	A	SP
	None	none
	G	R
<u>ISP 3</u>	sparse	honey yellow
	A	SP
	None	none
	G	R
<u>ISP 4</u>	sparse	cream
	A	SP
	none	none
	G	R
<u>ISP 5</u>	sparse	honey yellow
	A	SP
	None	none
	G	R
<u>ISP 6</u>	good	lemon yellow
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	lemon yellow
	A	SP
	none	none

**Melanoid pigment:**

**NaCl resistance:** %

**Lysozyme resistance:**

**pH:** Value-

Optimum-

**Temperature :** Value-

Optimum-28 °C

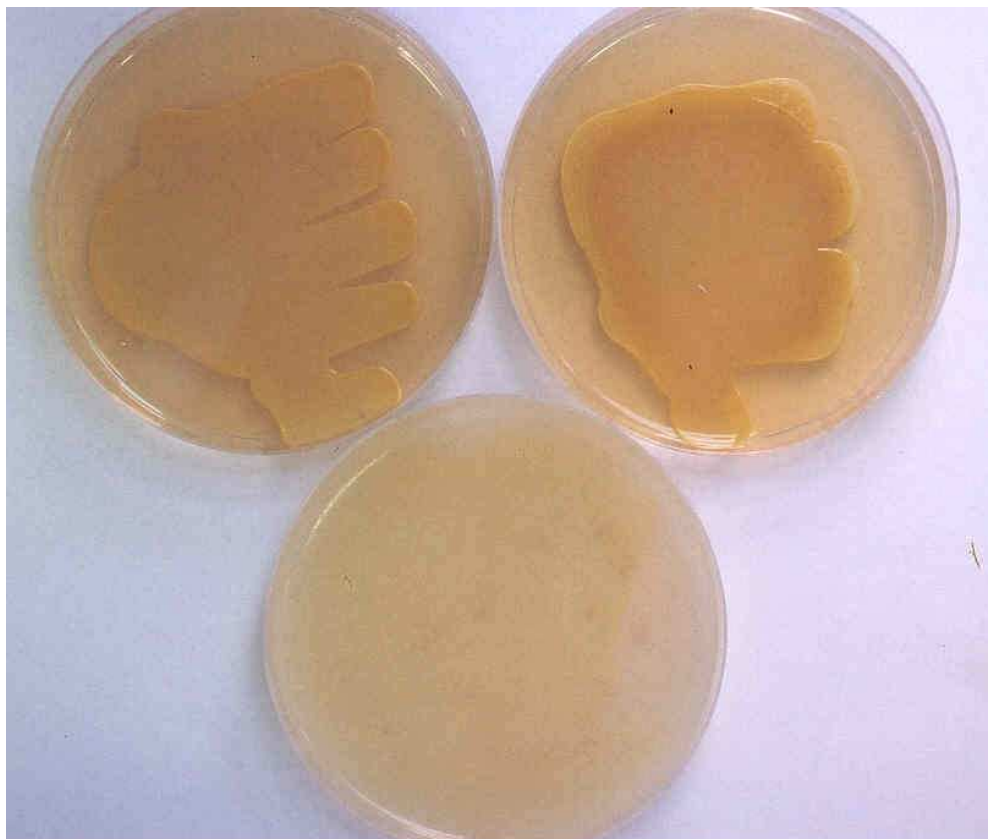
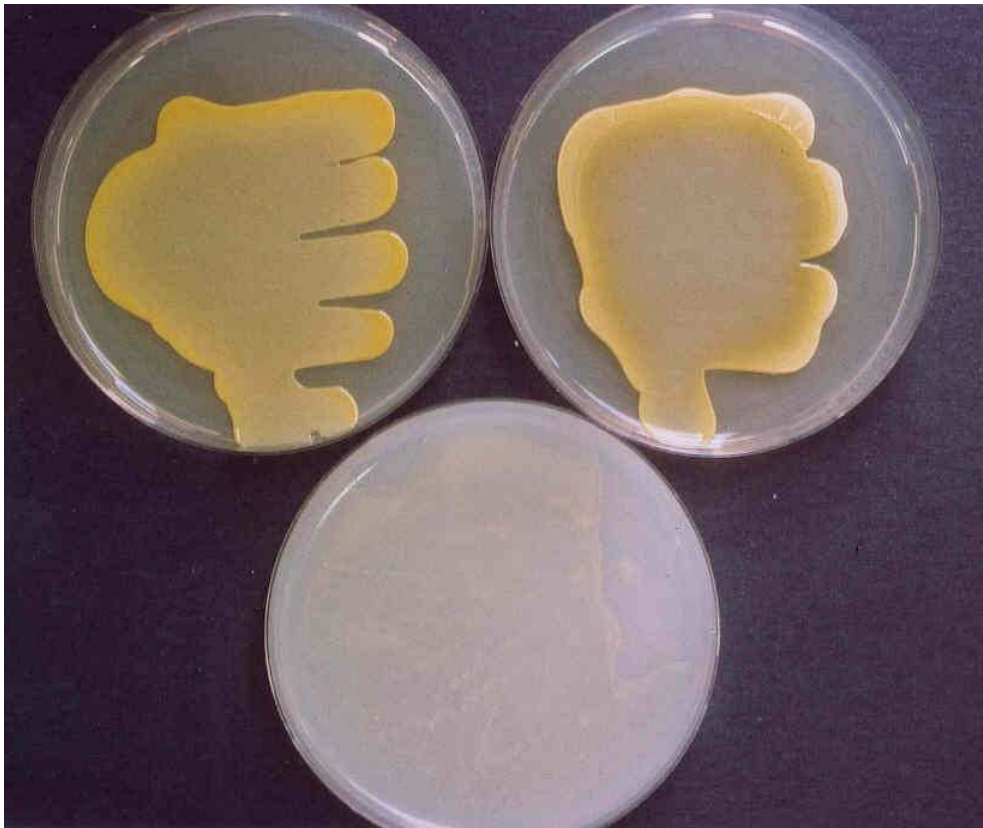
**Carbon utilization:**

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

**Enzymes:**

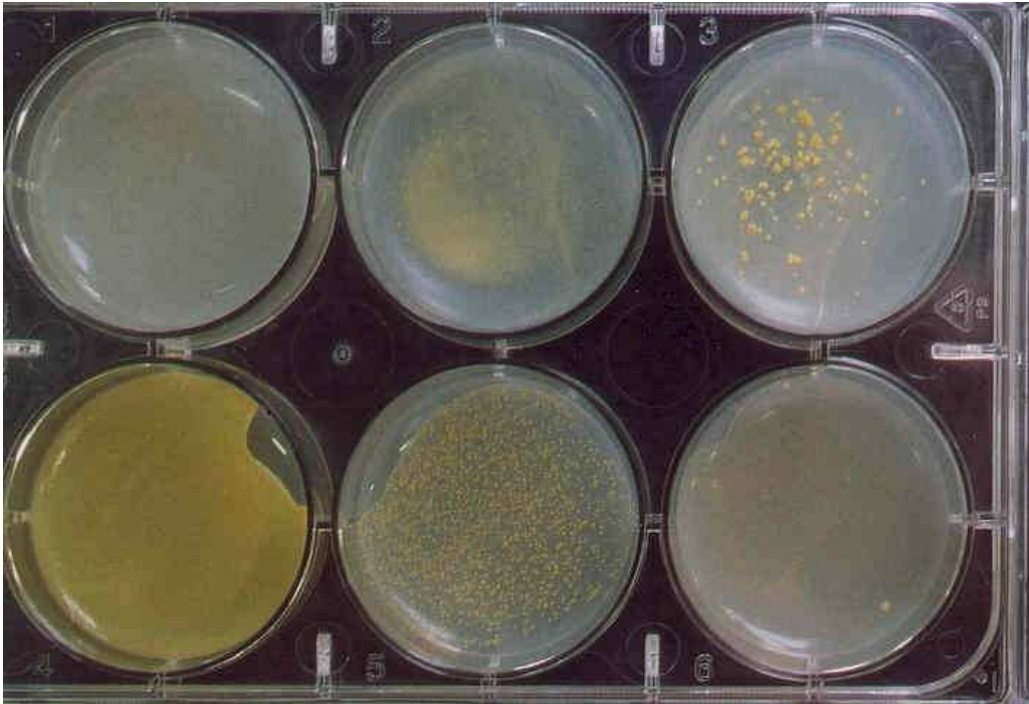
2+	3+	4+	5+	6+	7+	8-	9-	10-	11+	
12+	13-	14+	15-	16+	17-	18-	19-	20-		
Nit	Pyz	Pyr	Pal	βGur	βGal	αGlu	βNag	Esc	Ure	Gel
-	+	+	+	-	+	+	-	-	-	+
Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg			
+	-	-	-	(+)	-	-	-			

**Comments:**



***Arthrobacter castelli***

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



### *Arthrobacter castelli*

C – Microplate with ISP- and melanin media

D – Api Zym (upper) and Api Coryne