

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

Strain		DSM 23395
Genus		<i>Arthrobacter</i>
Species		<i>equi</i>
Status		
Risk group		L1
Type strain		CCUG 59597, IMMIB L-1606
Reference		
Author		Yassin, A. F., Spröer, C., Siering, C., Hupfer, H., Schumann, P.
Title		<i>Arthrobacter equi</i> sp. nov., isolated from veterinary clinical material.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 (Pt 9)
Page		2089-2094 .
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	light ivory (1015)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	light ivory (1015)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	ivory (1014)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	light ivory (1015)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	good
Agar	ISP 6 - R	light ivory (1015)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	telegrey 4 (7047)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	brown beige (1011)
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	beige (1001)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	sand yellow (1002)
Agar	suter without tyrosine - G	good

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Agar	suter without tyrosine - R	light ivory (1015)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		+
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		2,5%
lysozyme tolerance		
use of carbohydrates	glucose	+
use of carbohydrates	arabinose	+
use of carbohydrates	sucrose	+
use of carbohydrates	xylose	+
use of carbohydrates	inositol	+
use of carbohydrates	mannose	+
use of carbohydrates	fructose	+
use of carbohydrates	rhamnose	+
use of carbohydrates	raffinose	+
use of carbohydrates	cellulose	-
Api zym	Phosphatase alkaline	0
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	1
Api zym	Trypsin	3
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	1
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	5
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	4
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	4
Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	5
Api zym	alpha fucosidase	4
Api coryne	nitrate reduction	-
Api coryne	Pyraziamidase	-
Api coryne	Pyrrolidonyl arylamidase	-

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Api coryne	Alkaline phosphatase	-
Api coryne	beta glucuronidase	+
Api coryne	beta galactosidase	+
Api coryne	alpha glucosidase	+
Api coryne	N-acetyl -beta glucoseamidase	-
Api coryne	Esculin (beta glucosidase)	-
Api coryne	Urease	+
Api coryne	Gelatine(hydrolysis)	-
Api coryne	Glucose fermentation	-
Api coryne	Ribose fermentation	-
Api coryne	Xylose fermentation	-
Api coryne	Mannitol fermentation	-
Api coryne	Maltose fermentation	-
Api coryne	Lactose fermentation	-
Api coryne	Sucrose fermentation	-
Api coryne	Glycogen fermentation	-

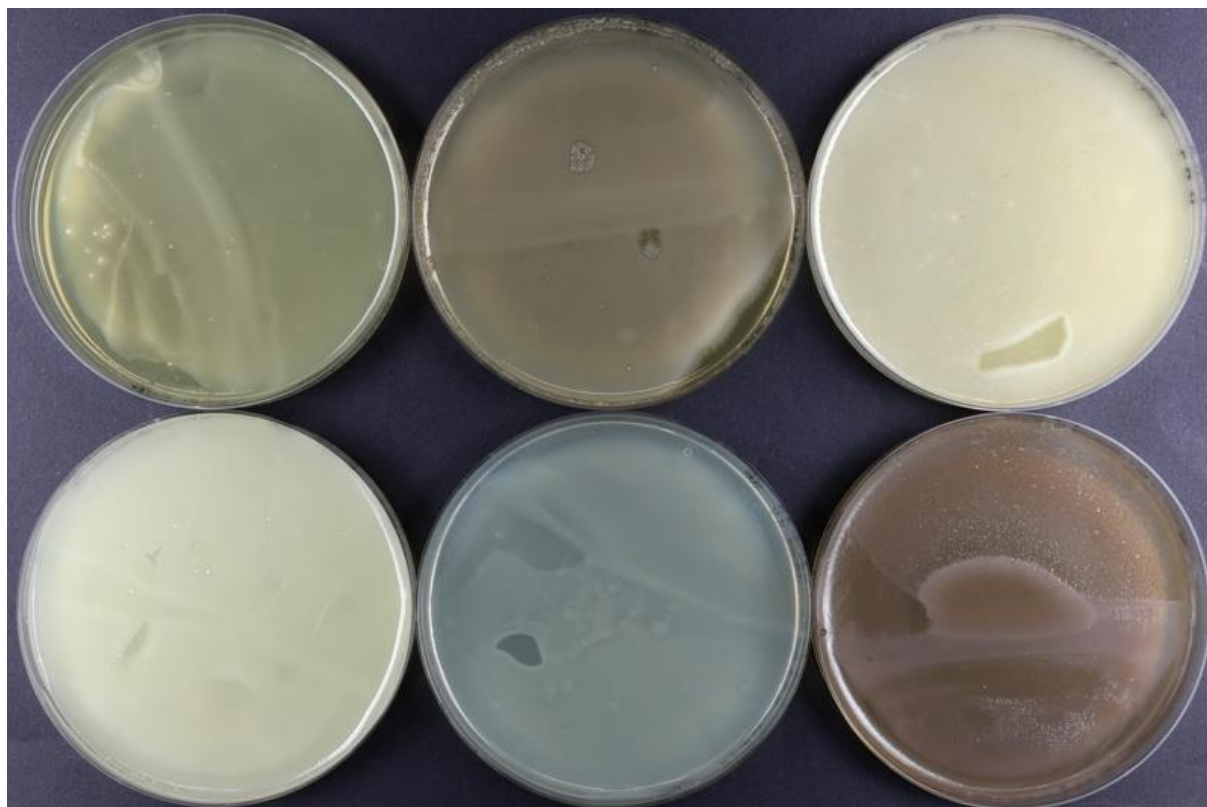
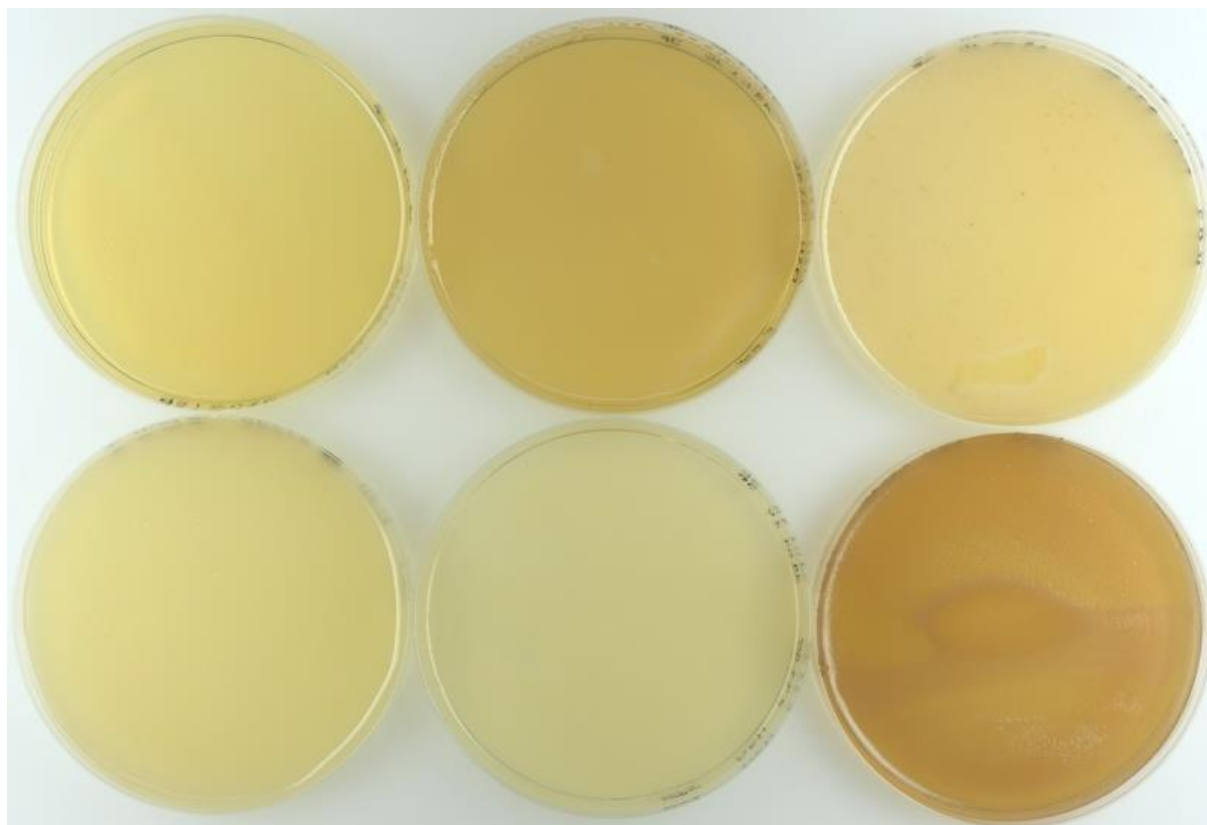
Apicoryne



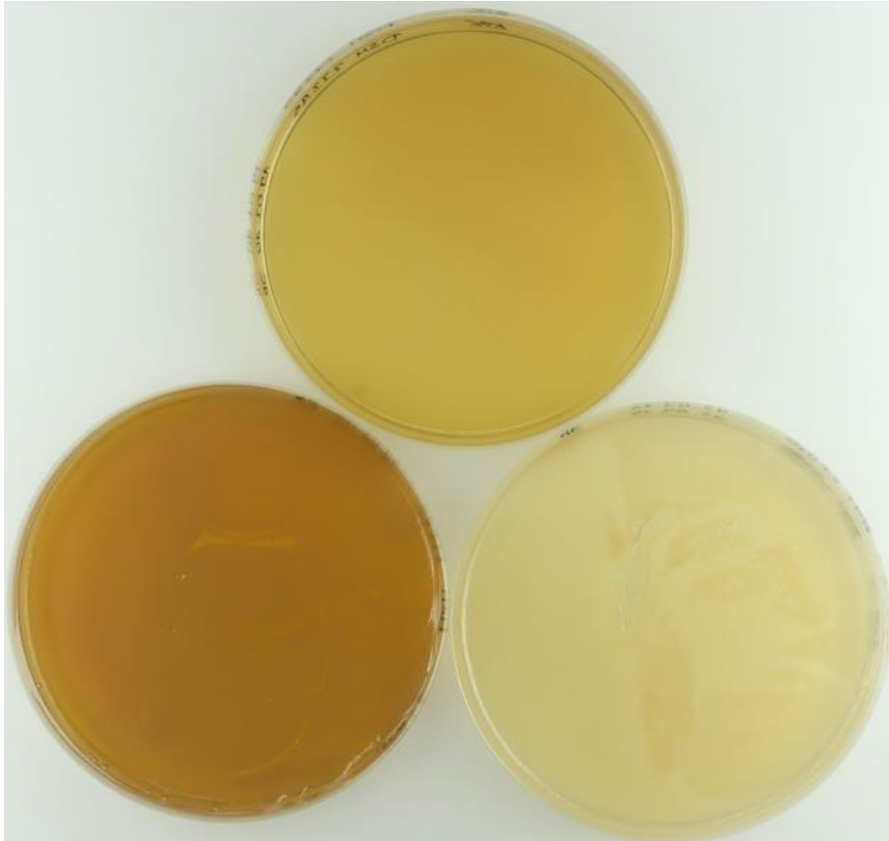
Apizym



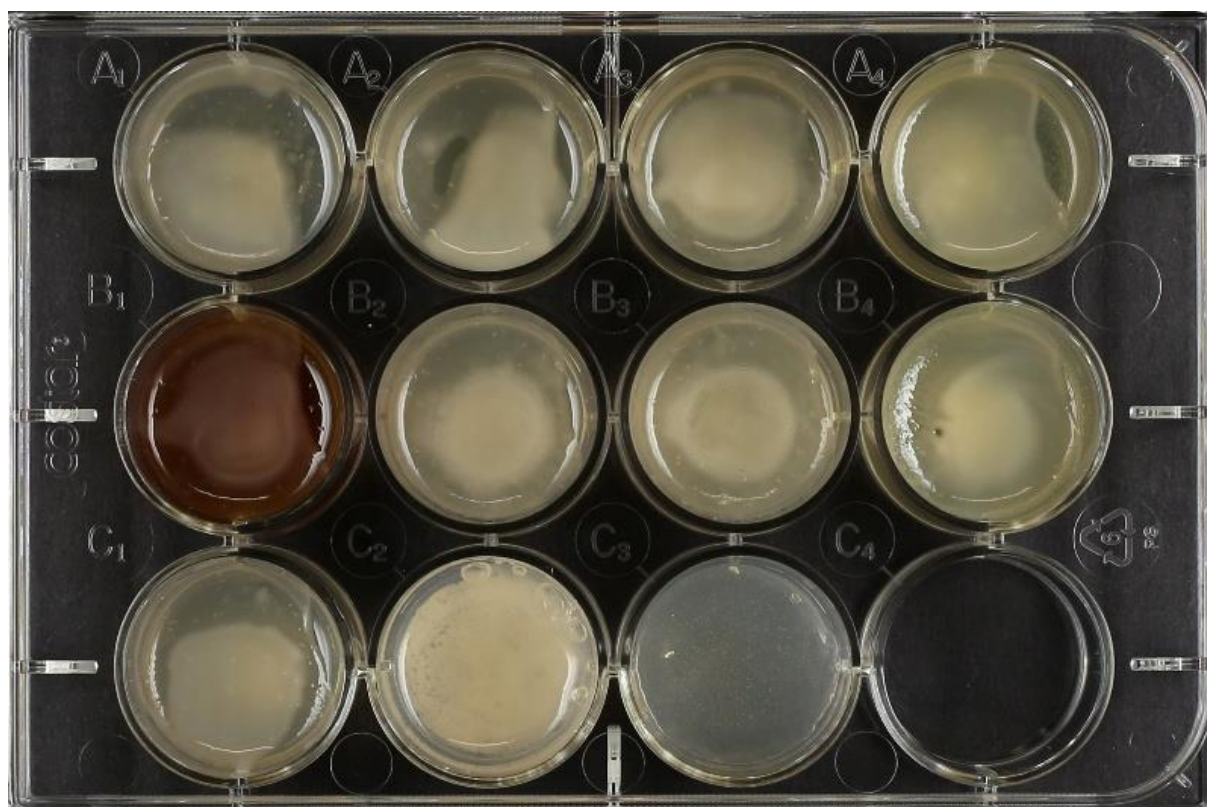
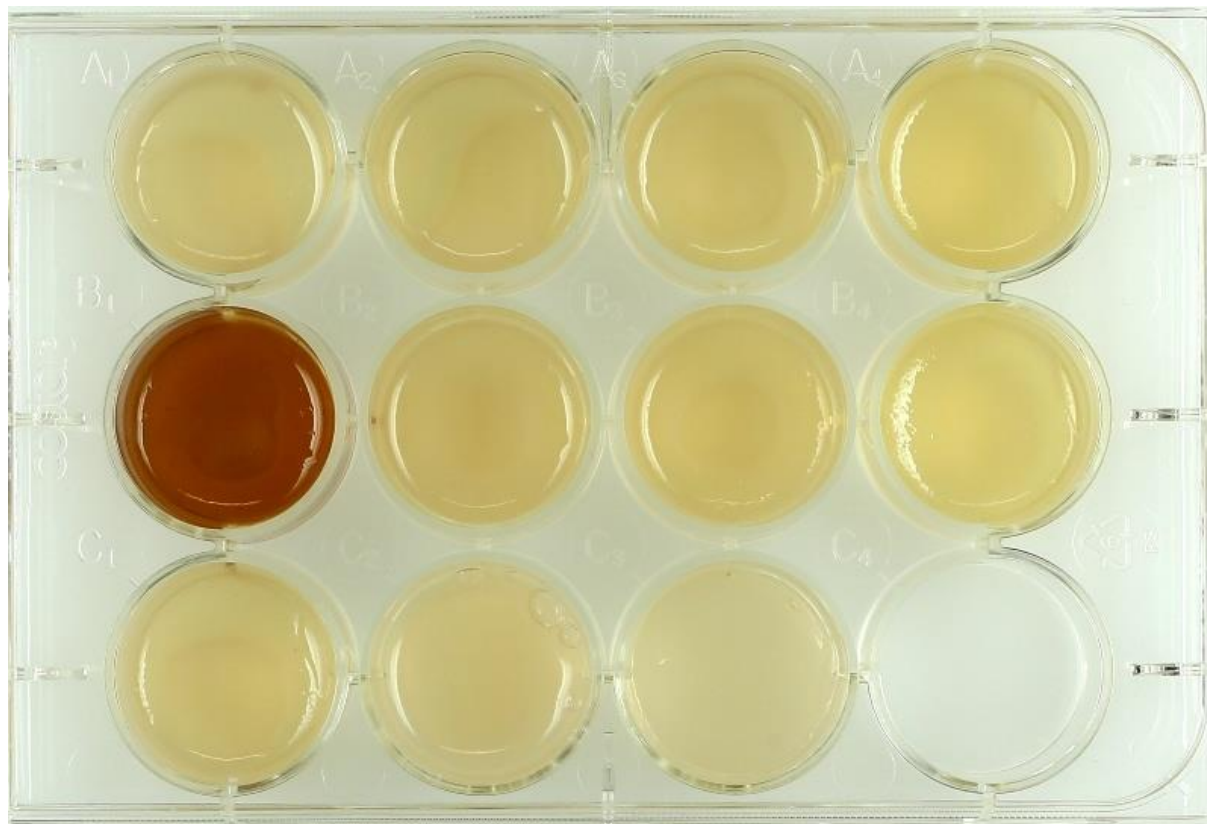
Plates (TSB, ISP2, ISP3, ISP4, ISP5, ISP7)



(ISP6, SSM+T, SSM-T)



Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose)



**Sodium chloride tolerance test (from top left to bottom right: 0%, 2,5%, 5%,
7,5%, 10%)**

