

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

Strain		DSM 22826
Genus		<b><i>Arthrobacter</i></b>
Species		<b><i>cryptolerans</i></b>
Status		
Synonym		<i>Paeniglutamicibacter cryptolerans</i>
Risk group		1 (classification according to German <a href="#">TRBA</a> )
Type strain		LI3,DSM 22826,NCCB 100315
Reference		Int. J. Syst. Evol. Microbiol. 61:983
Author		Ganzert, L., Bajerski, F., Mangelsdorf, K., Lipski, A., Wagner, D.
Title		<i>Arthrobacter livingstonensis</i> sp. nov. and <i>Arthrobacter cryptolerans</i> sp. nov., salt-tolerant and psychrotolerant species from Antarctic soil.
Journal		<i>Int.J.Syst.Evol.Microbiol.</i>
Volume		<b>61</b>
Page		979-984
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	pale yellow
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	none
Agar	ISP 3 - R	
Agar	ISP 3 - A	
Agar	ISP 3 - S	
Agar	ISP 4 - G	none
Agar	ISP 4 - R	
Agar	ISP 4 - A	
Agar	ISP 4 - S	
Agar	ISP 5 - G	none
Agar	ISP 5 - R	
Agar	ISP 5 - A	
Agar	ISP 5 - S	
Agar	ISP 6 - G	none
Agar	ISP 6 - R	
Agar	ISP 6 - A	
Agar	ISP 6 - S	
Agar	ISP 7 - G	good
Agar	ISP 7 - R	pale yellow
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none

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Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	pale yellow
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	pale yellow
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		-----
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodium chloride tolerance		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 alcaline	-
Api zym	Esterase (C4)	+
Api zym	Esterase Lipase (C8)	+
Api zym	Lipase (C14)	-
Api zym	Leucin arylamidase	+
Api zym	Valine arylamidase	+
Api zym	Cystine arylamidase	(+)
Api zym	Trypsin	(+)
Api zym	Chymotrypsin	-
Api zym	Phosphatase acid	-
Api zym	Naphtol-AS-BI-phosphohydrolase	+
Api zym	alpha galactosidase	-
Api zym	beta galactosidase	-
Api zym	beta glucuronidase	-
Api zym	alpha glucosidase	+
Api zym	beta GLUCOSIDASE	+
Api zym	N-acetyl-beta-glucoseamidase	+

Api zym	alpha mannosidase	+
Api zym	alpha fucosidase	-
Api coryne	nitrate reduction	-
Api coryne	Pyrazinamidase	+
Api coryne	Pyrrolidonyl arylamidase	-
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	-
Metabolites		

## Apicoryne

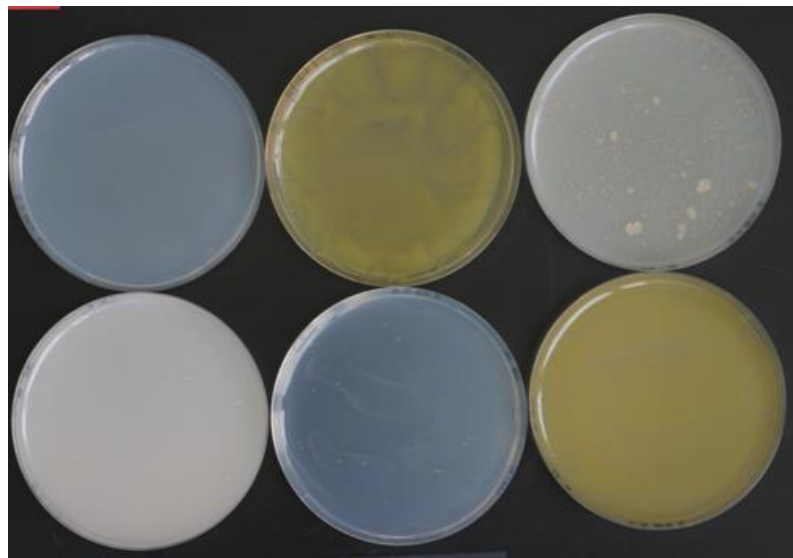
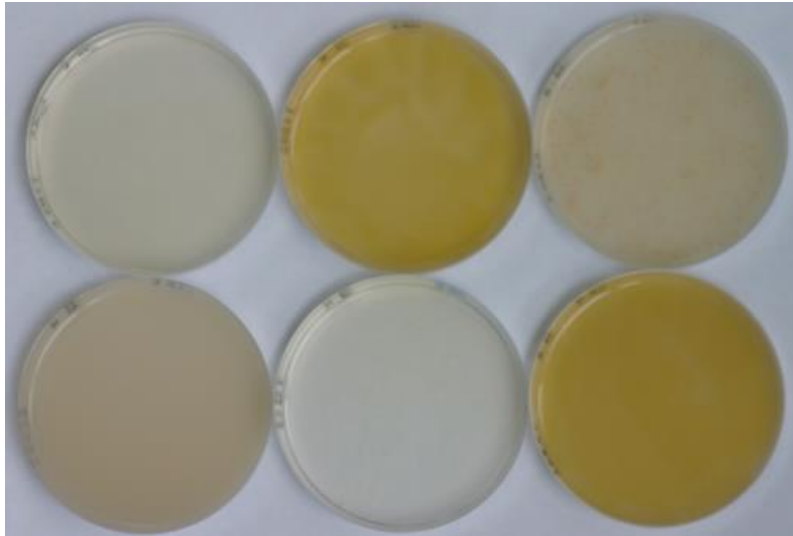


Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 22826.

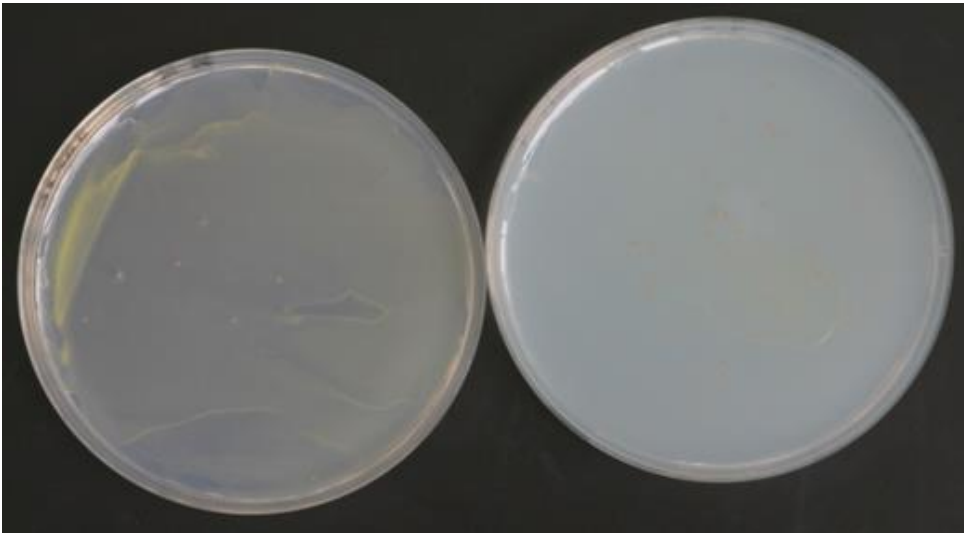
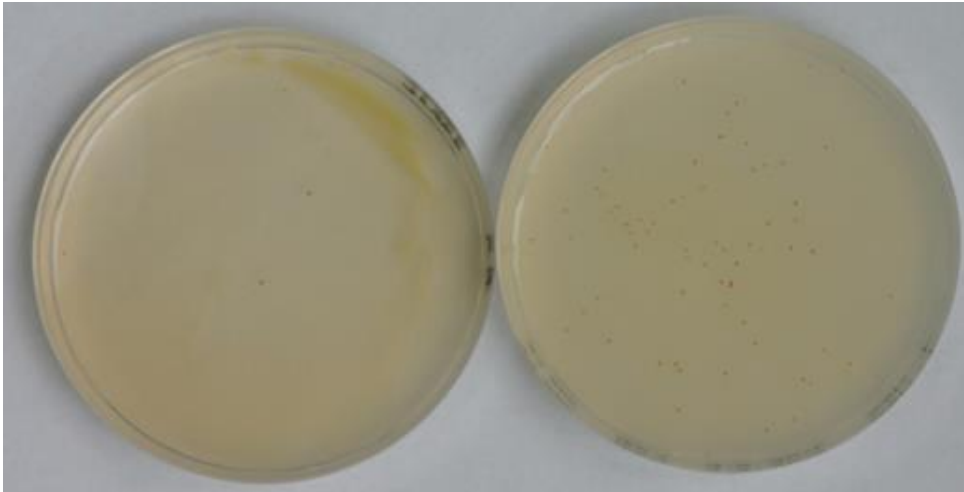
## Apizym



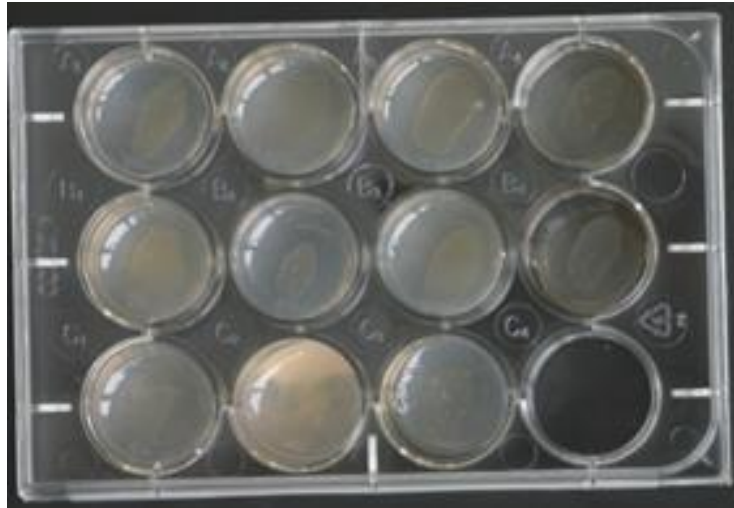
Abbildung 2: Apizym-Teststreifen mit Keim DSM 228826 .



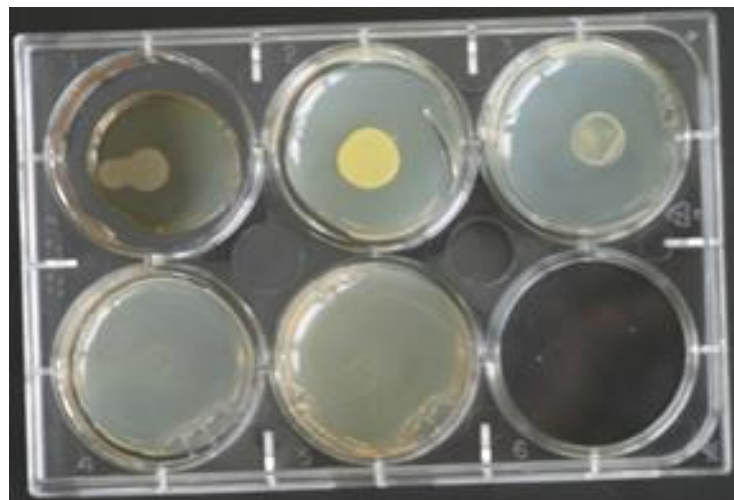
**Plates** (DSM 65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)**