

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

Strain		DSM 22082
Genus		<b><i>Brevibacterium</i></b>
Species		<b><i>sandarakinum</i></b>
Status		
Risk group		L1
Type strain		01-Je-003, CCM 7649, DSM 22082
Reference		
Author		Kämpfer, P., Schäfer, J., Lodders, N., Busse, H. J.
Title		<i>Brevibacterium sandarakinum</i> sp. nov., isolated from a wall of an indoor environment.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		60 ( Pt 4 )
Page		909-913
Year		2010
Morphology		
Agar	ISP 2 - growth/G	Decreased
Agar	ISP 2 - colony color/R	Daffodil yellow (1007)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	None
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	None
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	sun yellow (1037)
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	/
Agar	ISP 6 - R	/
Agar	ISP 6 - A	/
Agar	ISP 6 - S	/
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	Sun yellow (1037)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Sun yellow (1037)
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	Sand yellow (1002)
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodim chloride tolerance		10%
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	1
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	2
Api zym	Valine arylamidase	0
Api zym	Cystine arylamidase	0
Api zym	Trypsin	1
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	0
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
Api zym	beta GLUCOSIDASE	0
Api zym	N-acetyl-beta-glucoseamidase	1
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	1
Api coryne	nitrate reduction	-
Api coryne	Pyraziamidase	(+)
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	-

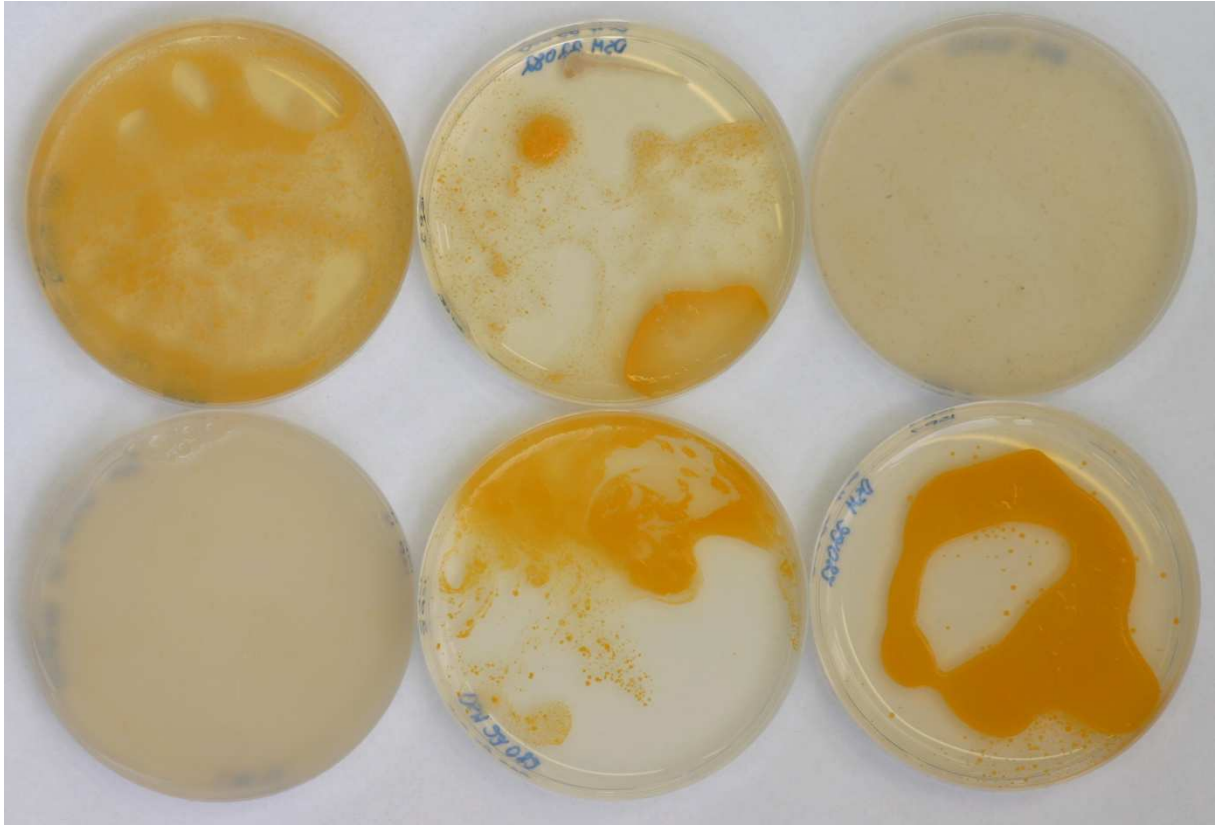
### Apicoryne



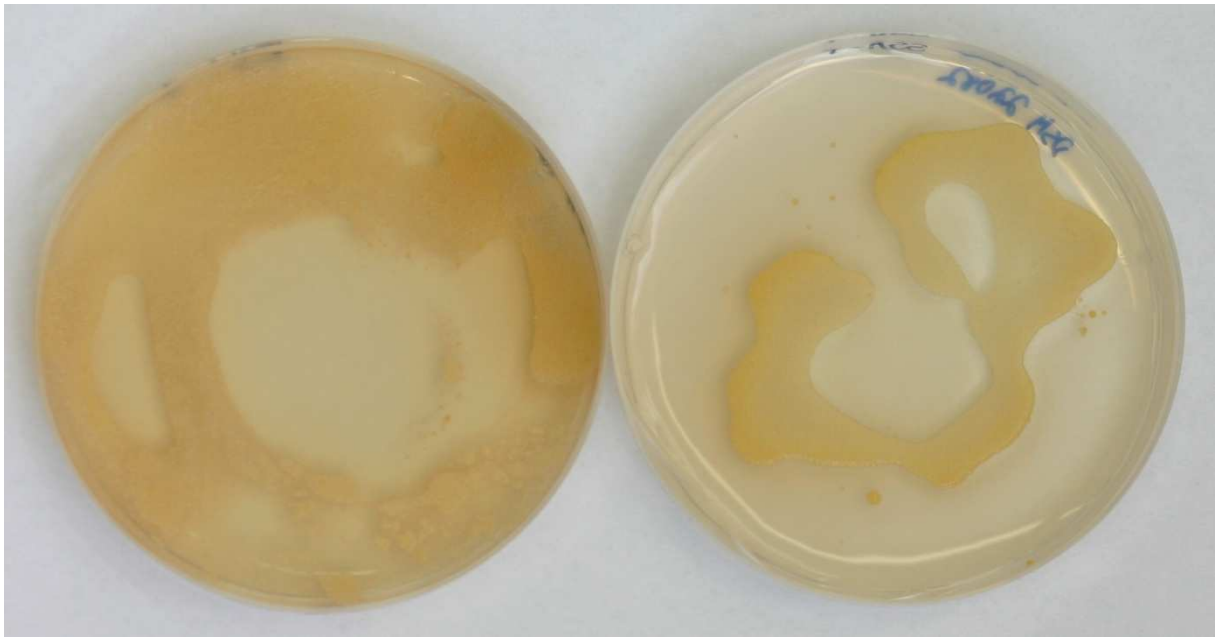
### Apizym



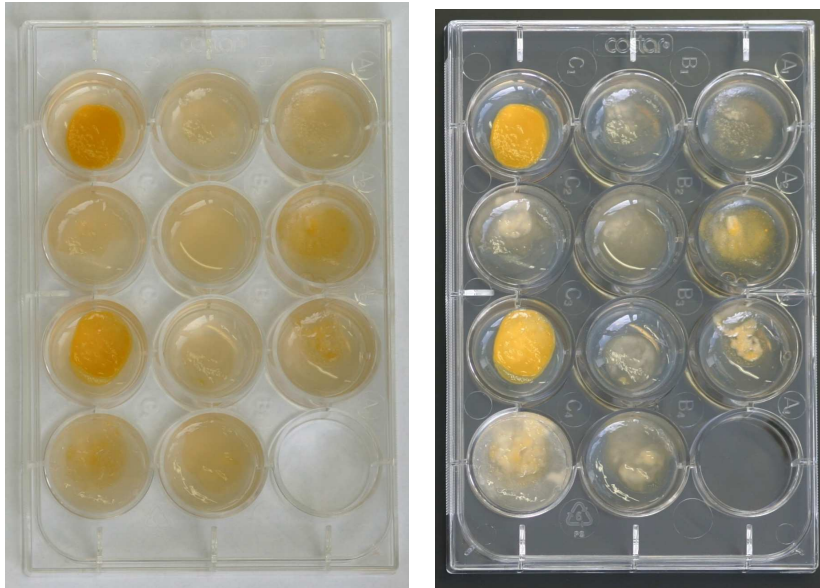
**Plates** (DSM 92, ISP2, ISP3, ISP4, ISP5, ISP7)



(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 left: 0%, 2,5%, 5%, 7,5%, 10%)**

