

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

Strain		DSM 105535
Genus		<i>Kribbella</i>
Species		<i>jiaozuonensis</i>
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		CGMCC 4.7504, NEAU-THZ 27
Genbank accession numbers		16S rRNA gene: MK817655 whole genome shotgun sequence: SZPZ00000000
Reference		
Author		Zhao, J., Duan, L., Qian, L., Cao, P., Tian, Y., Ju, H., Xiang, W., Wang, X.
Title		<i>Kribbella jiaozuonensis</i> sp. nov., a novel actinomycete isolated from soil
Journal		<i>International Journal of Systematic and Evolutionary Microbiology</i>
Volume		69
Page		3500-3507
Year		2019
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	light ivory (1015)
Agar	ISP 2 - aerial mycelium/A	signal white (9003), sparse
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	light ivory (1015)
Agar	ISP 3 - A	traffic white (9016), sparse
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	light ivory (1015)
Agar	ISP 4 - A	oyster white (1013), sparse
Agar	ISP 4 - S	ivory (1014)
Agar	ISP 5 - G	sparse
Agar	ISP 5 - R	light ivory (1015)
Agar	ISP 5 - A	signal white (9003), sparse
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	beige (1001), sand yellow (1002)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	ivory (1014)
Agar	ISP 7 - A	signal white (9003), good
Agar	ISP 7 - S	none

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

Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	sand yellow (1002), ivory (1014)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	ivory (1014), 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 alcaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	0
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	3
Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	5

Api zym	alpha mannosidase	5
Api zym	alpha fucosidase	2
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	-

Apicoryne



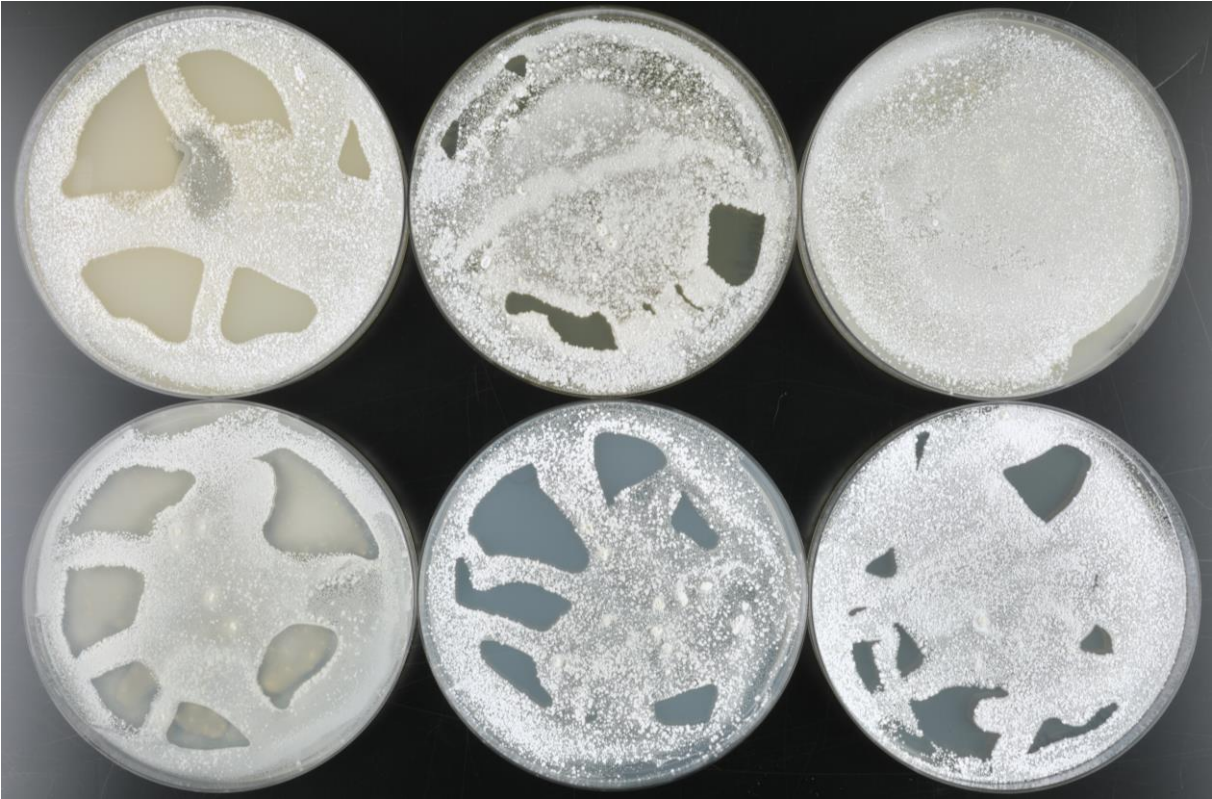
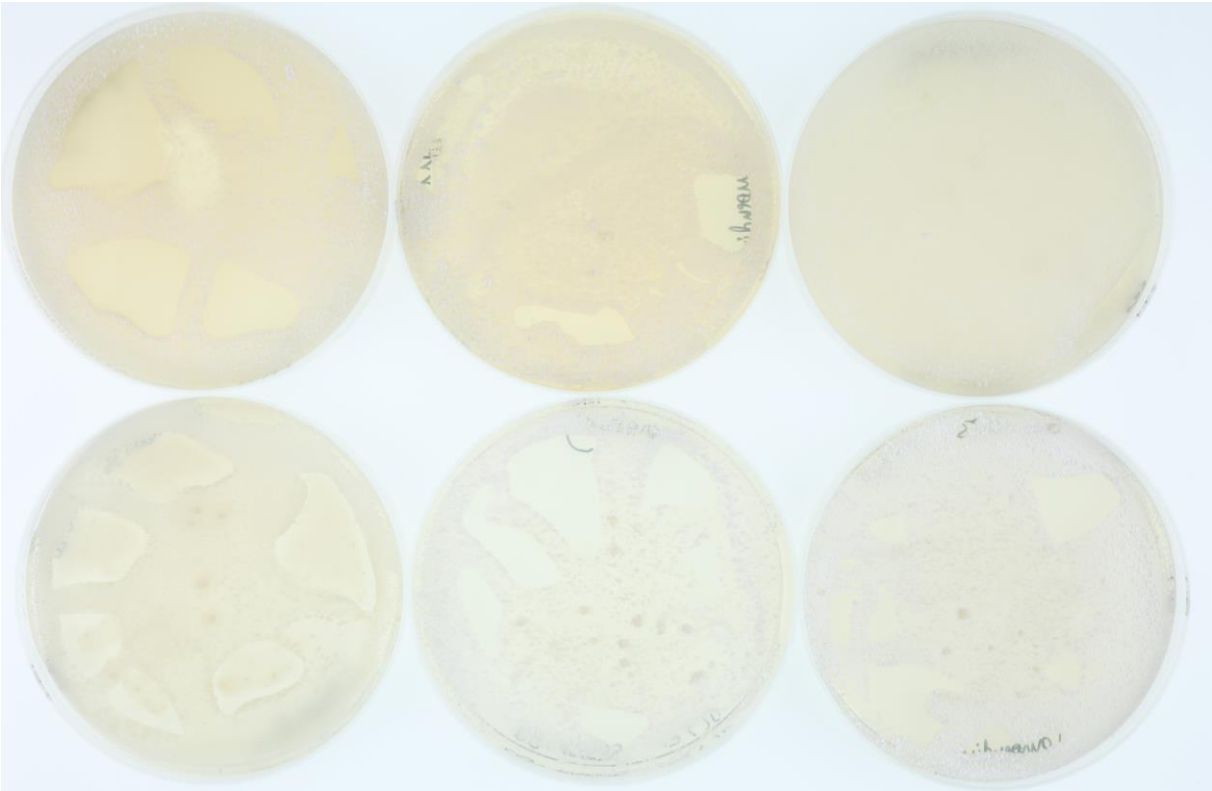
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 105535.

Apizym

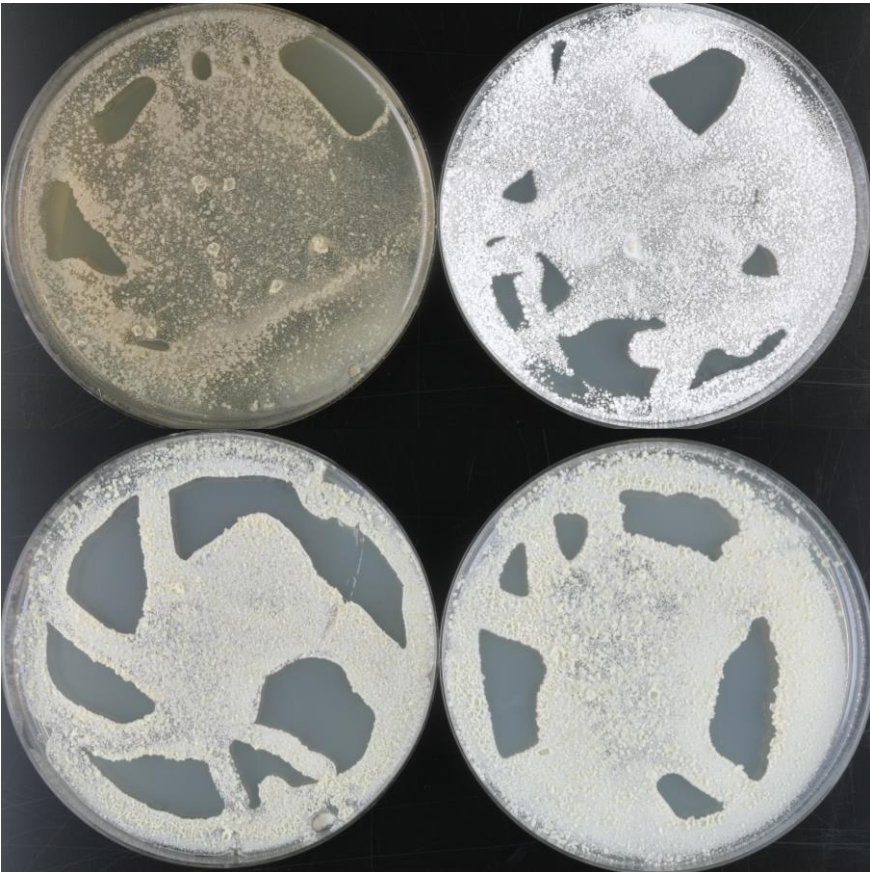


Abbildung 2: Apizym-Teststreifen mit Keim DSM 105535.

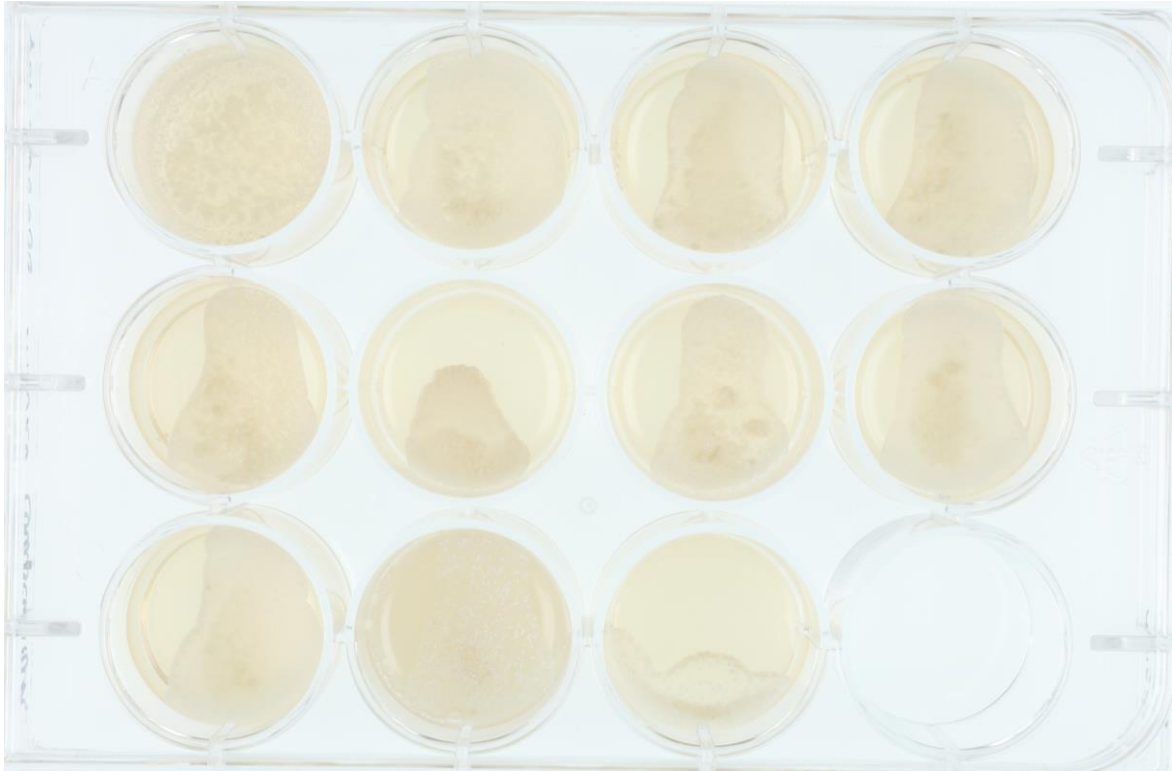
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(ISP6, 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%)

