

Strain		DSM 46763
Genus		<i>Nocardia</i>
Species		<i>yunnanensis</i>
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		CFH S0054; DSM 46763; JCM 30082T
Genbank accession number		16S rRNA gene: KY039319 complete genome: CP032568
Reference		
Author		Zhang JX, Ming H, Zhao ZL, Ji WL, Chang XL, Zhang LY, Cheng LJ, Meng XL, Li WJ, Nie GX
Title		<i>Nocardia yunnanensis</i> sp. nov., an actinomycete isolated from a soil sample
Journal		Int J Syst Evol Microbiol
Volume		69
Page		3116-3120
Year		2019
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	1001 beige
Agar	ISP 2 - aerial mycelium/A	Good, 9003 signal white
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Sparse
Agar	ISP 3 - R	1013 oyster white
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Sparse
Agar	ISP 4 - R	colourless
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1034 pastel yellow
Agar	ISP 5 - A	Good, 9003 signal white
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Sparse
Agar	ISP 6 - R	1015 light ivory, 1034 pastel yellow
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	8003 clay brown

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

Agar	ISP 7 - A	Good, 9003 signal white
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	1011 brown beige, 8002 signal brown
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1034 pastel yellow
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	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	3
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	1
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4

Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	2
Api zym	alpha fucosidase	0
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.

APIzym

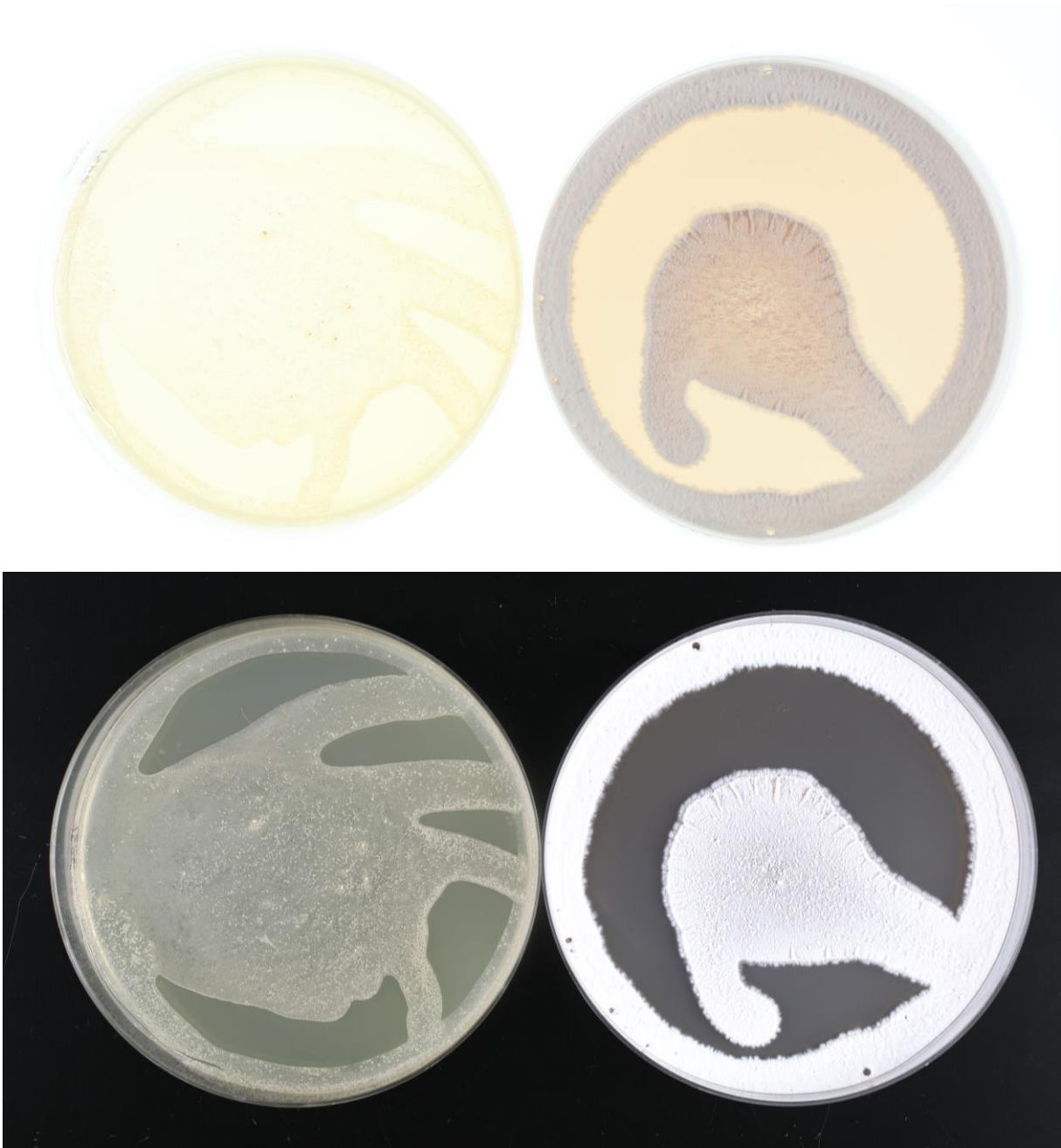


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

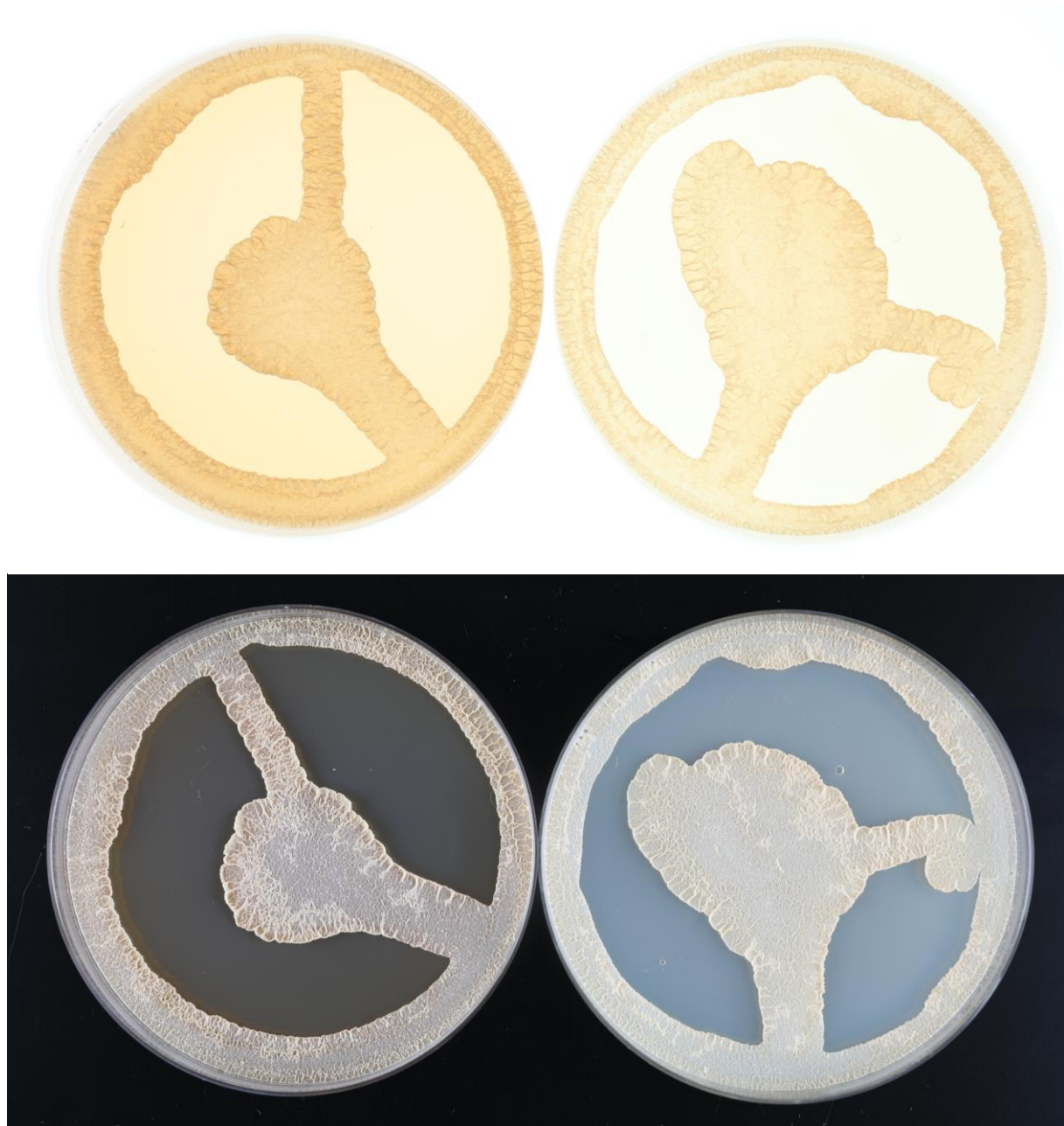
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)