

Strain		DSM 106126
Genus		<i>Streptomyces</i>
Species		<i>diacarni</i>
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		CCTCC AA 2018017; DSM 106126; LHW51701
Genbank accession number		16S rRNA gene: KX347890 whole genome shotgun sequence: QQIN000000000
Reference		
Author		Li L, Wang J, Zhou YJ, Lin HW, Lu YH.
Title		<i>Streptomyces reniochaliniae</i> sp. nov. and <i>Streptomyces diacarni</i> sp. nov., from marine sponges
Journal		Int J Syst Evol Microbiol
Volume		69
Page		99-104
Year		2019
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	8002 signal brown
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	8001 ochre brown
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	8002 signal brown
Agar	ISP 3 - A	Sparse, 9003 signal white
Agar	ISP 3 - S	9003 oxide red, 8002 signal brown
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	1015 light ivory
Agar	ISP 4 - A	None
Agar	ISP 4 - S	1011 brown beige
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1011 brown beige
Agar	ISP 5 - A	Good, 9002 grey white
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	7002 olive grey
Agar	ISP 6 - A	Sparse, 9002 grey white
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	1011 brown beige

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

Agar	ISP 7 - A	Good, 9002 grey white
Agar	ISP 7 - S	8001 ochre brown
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	8002 signal brown, 1015 light ivory
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	8004 copper brown
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1014 ivory
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	1002 sand yellow
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium 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 alkaline	
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	

APIcoryne



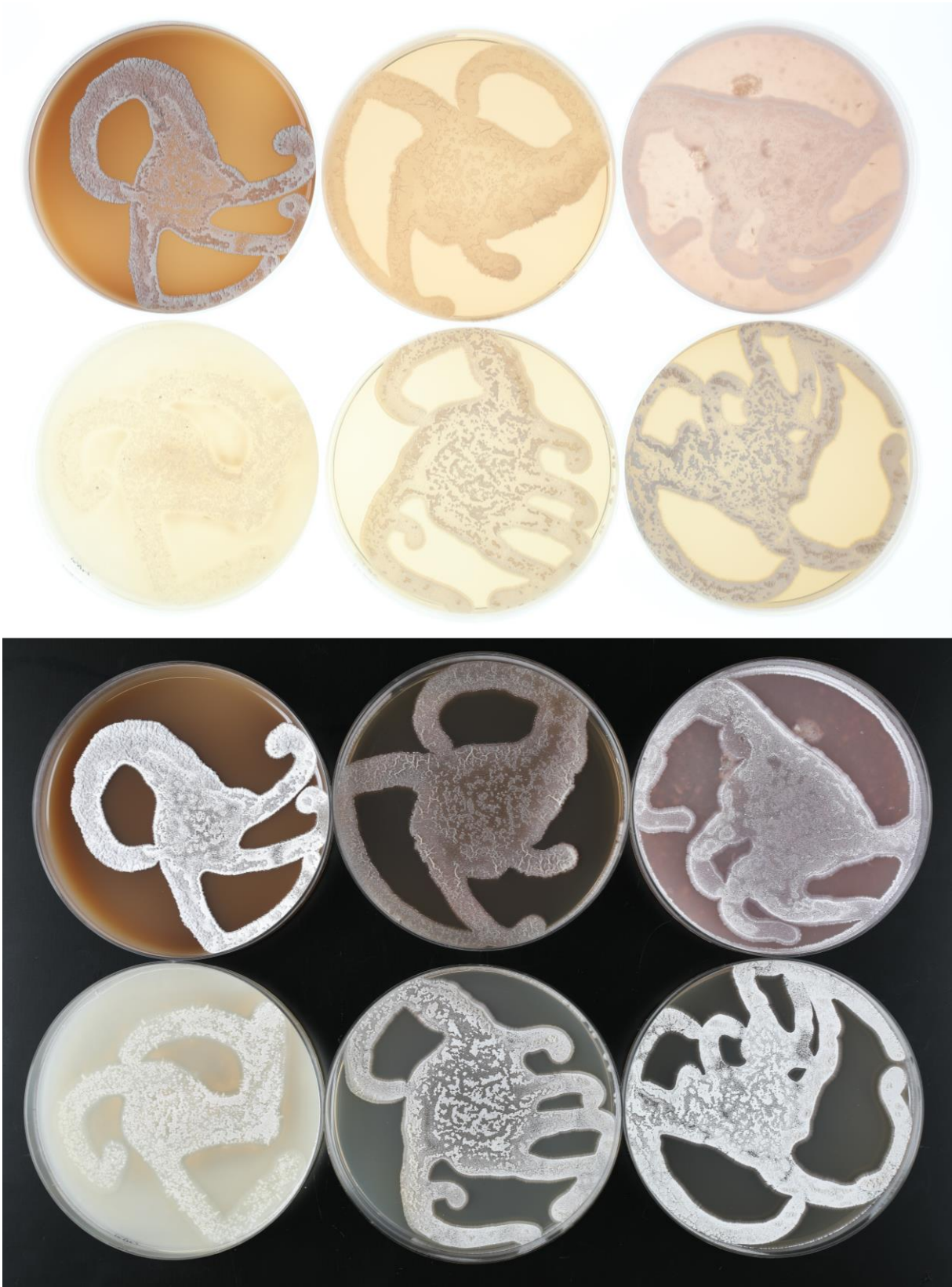
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

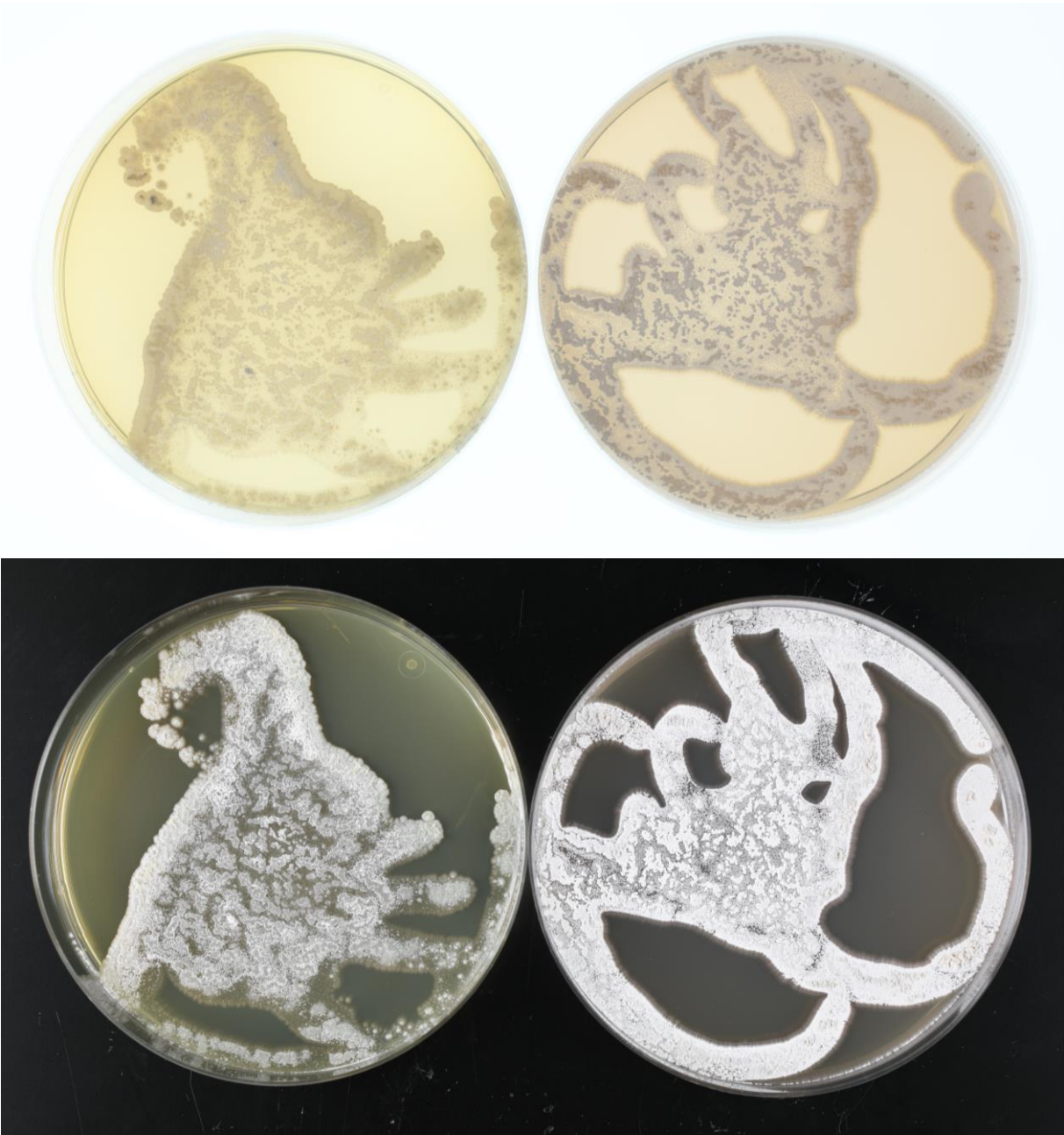


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

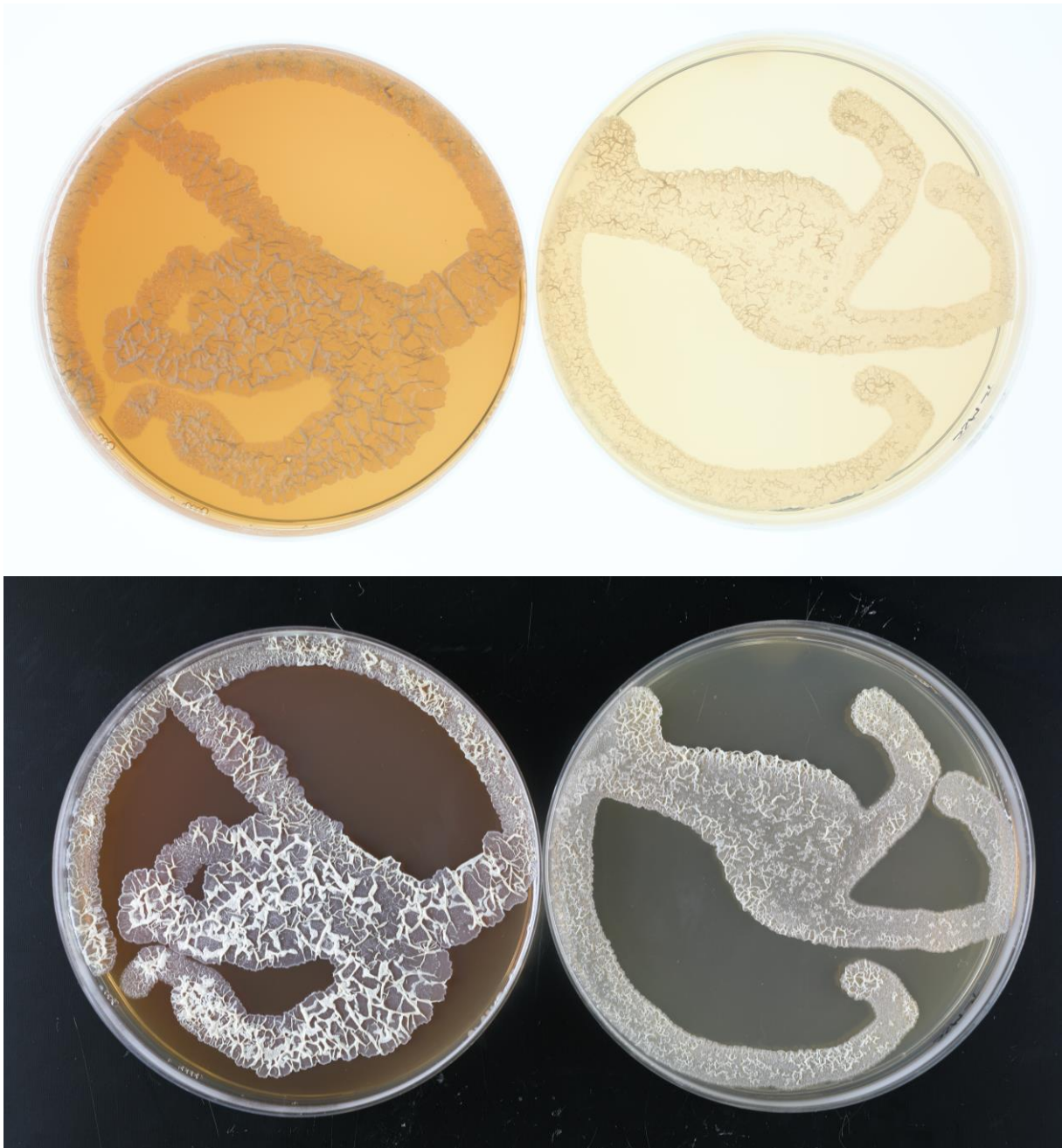
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

