

Strain		DSM 43021
Genus		<i>Streptosporangium</i>
Species		<i>roseum</i>
Status		
Risk group		L1
Type strain		ATCC 12428; DSM 43021; IFO 3776; JCM 3005; NBRC 3776; NRRL 2505; VKM Ac-807
Genbank accession number		16S rRNA gene: X89947 complete genome: CP001814 plasmid pSROS01: CP001815
Reference		
Author		Couch JN.
Title		A new genus and family of the Actinomycetales, with a revision of the genus Actinoplanes
Journal		Journal of Elisha Mitchell Scientific Society
Volume		71
Page		148-155
Year		1955
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	8001 ochre brown, 8004 copper brown
Agar	ISP 2 - aerial mycelium/A	Sparse, 9003 signal white
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	8001 ochre brown, 8004 copper brown
Agar	ISP 3 - A	Good, 9016 traffic white, 7036 platinum grey
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	1015 light ivory, 1011 brown beige
Agar	ISP 4 - A	Sparse, 9003 signal white
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	8025 pale brown
Agar	ISP 5 - A	Sparse, 9002 grey white
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	1002 sand yellow
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None

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

Agar	ISP 7 - G	Good
Agar	ISP 7 - R	8025 pale brown
Agar	ISP 7 - A	Good, 7047 telegrey 4
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	1015 light ivory, 8025 pale brown
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1015 light ivory
Agar	suter without tyrosine - A	8025 pale brown
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	None
Physiology		
Melanin		0
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		0%
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)	0
Api zym	Lipase (C14)	2
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	0
Api zym	Trypsin	1
Api zym	Chymotrypsin	2
Api zym	Phosphatase acid	2
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	3

Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4
Api zym	beta glucosidase	2
Api zym	N-acetyl-beta-glucoseamidase	2
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	1
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



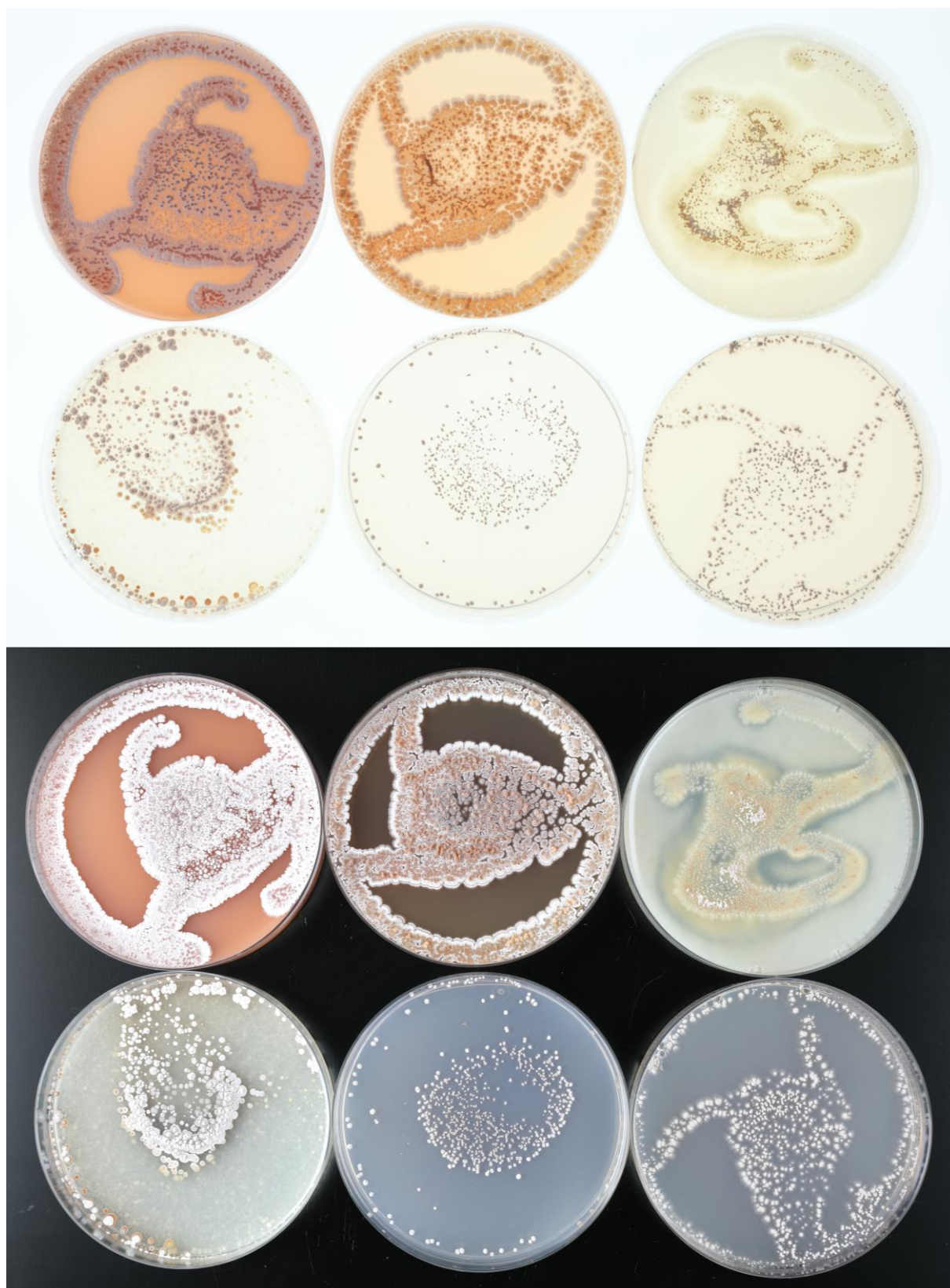
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

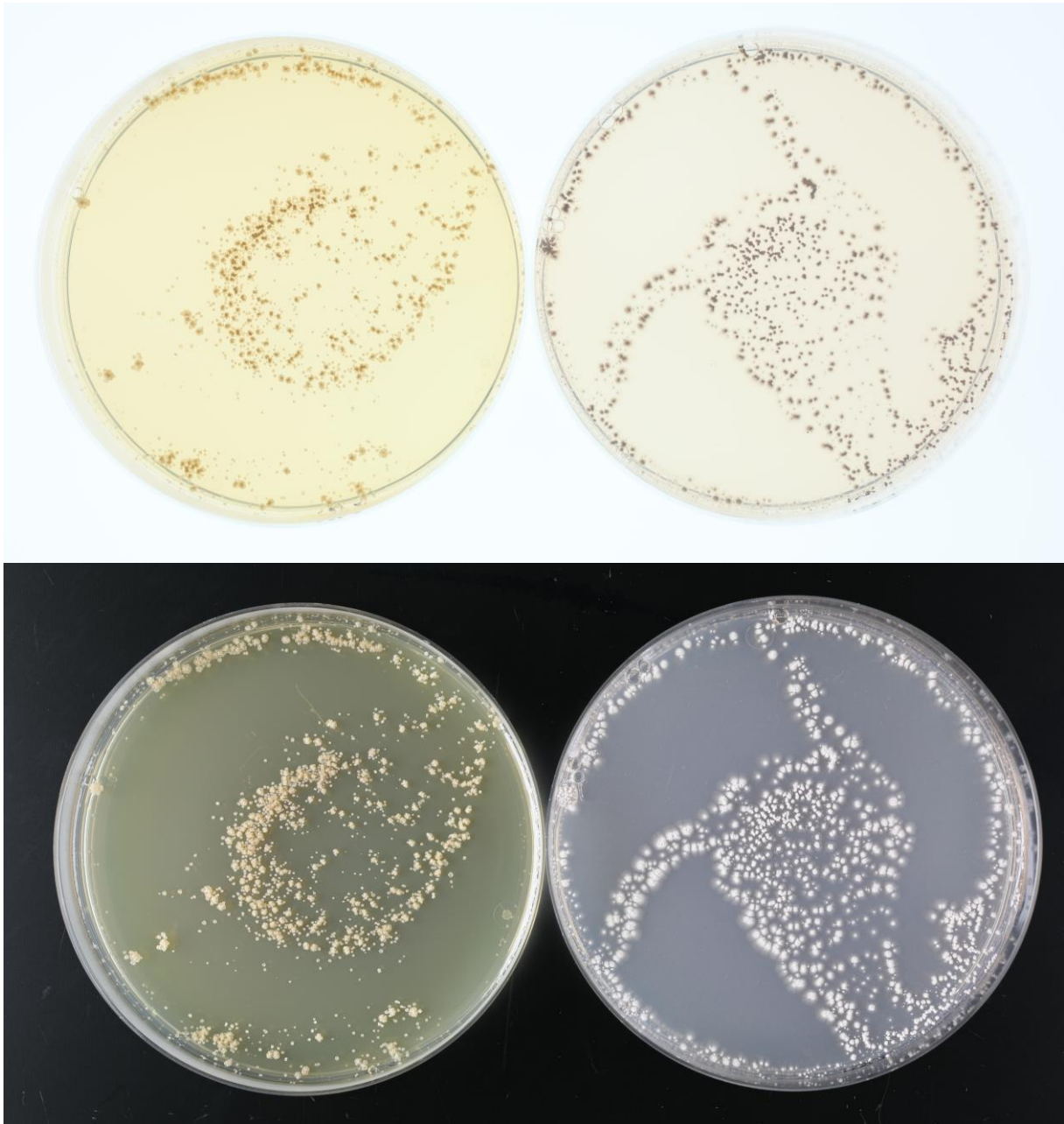


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

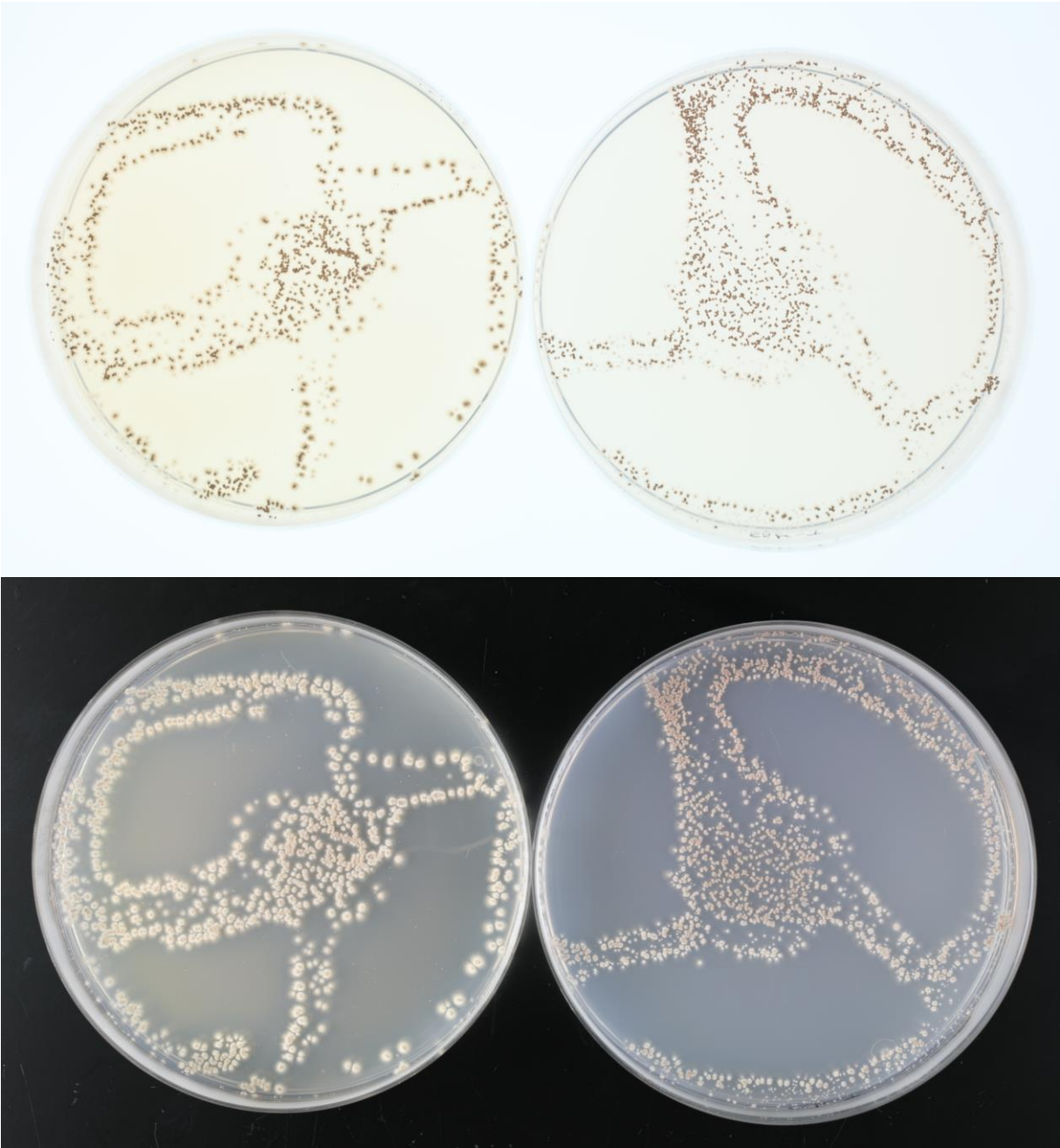
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

