

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

Strain		DSM 40096
Genus		<i>Streptomyces</i>
Species		<i>sp.</i>
Status		valid
Risk group		1
Type strain		ETH 7534; ATCC 19783,CBS 535.68,IFO 12794,ISP 5096,JCM 4145,JCM 4592,RIA 1062,RIA 528,NBRC 12794
Genbank accession numbers		
Reference		
Author		
Title		
Journal		
Volume		
Page		
Year		
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	ochre yellow (1024)
Agar	ISP 2 - aerial mycelium/A	traffic white (9016), good
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good +
Agar	ISP 3 - R	ochre yellow (1024), pale brown (8025)
Agar	ISP 3 - A	traffic white (9016), silver grey (7044) , good+
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	sand yellow (1002)
Agar	ISP 4 - A	Pure white (9010), dusty grey (7037), good
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	sand yellow (1002)
Agar	ISP 5 - A	traffic white (9016), good
Agar	ISP 5 - S	none
Agar	ISP 6 - G	good
Agar	ISP 6 - R	ochre yellow (1024), ivory (1014)
Agar	ISP 6 - A	traffic white (9016), sparse
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	sand yellow (1002), khaki grey (7008)

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Agar	ISP 7 - A	pure white (9010), moss grey (7003)
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	ochre yellow (1024)
Agar	suter with tyrosine - A	traffic white (9016), good
Agar	suter with tyrosine - S	sand yellow (1002)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	ochre yellow (1024)
Agar	suter without tyrosine - A	traffic white (9016), good
Agar	suter without tyrosine - S	sand yellow (1002)
	Sporechains/Sporangia	
Physiology		
Melanin		0 (- - + +)
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)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	2
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0

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



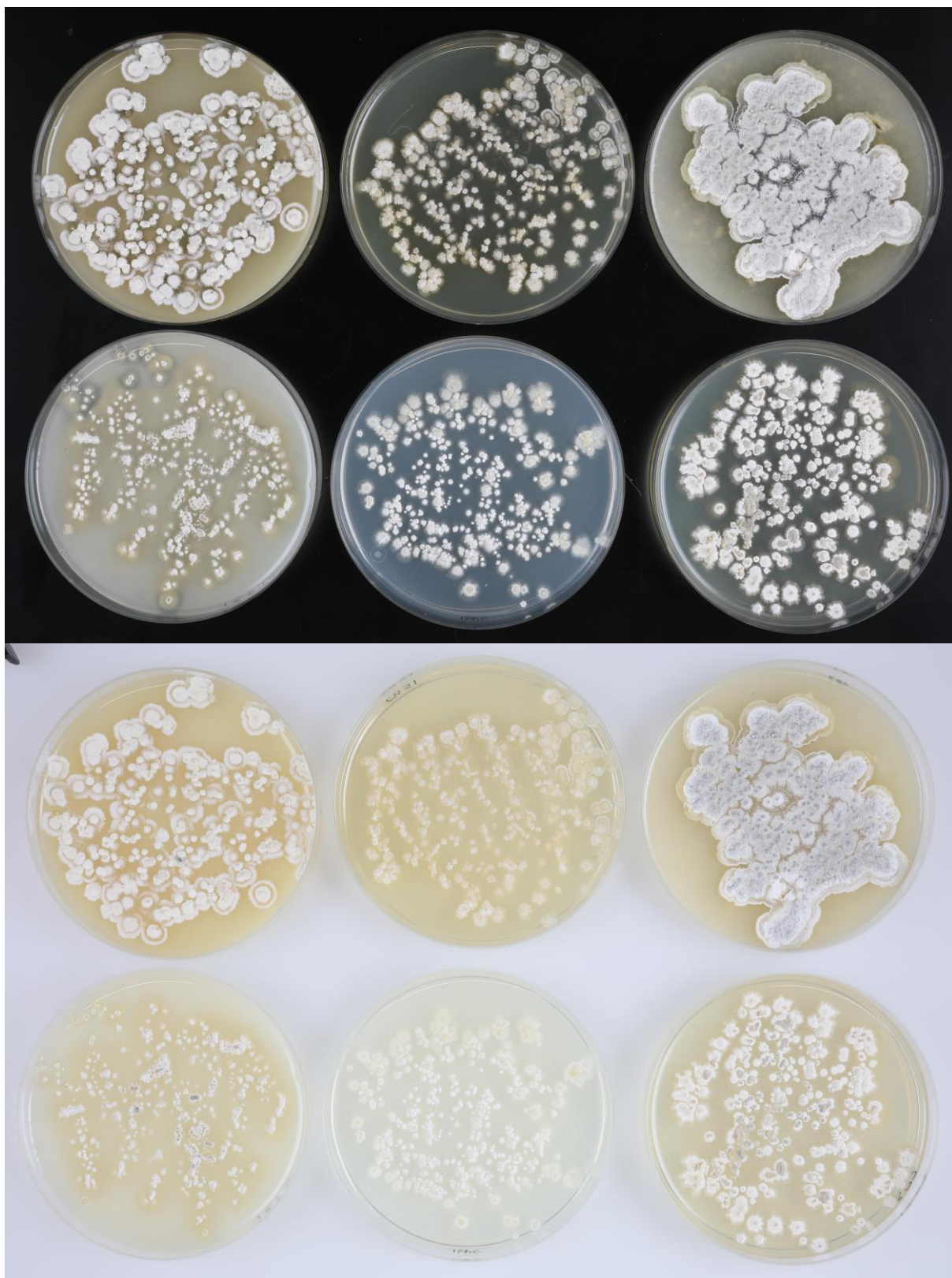
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

Apizym

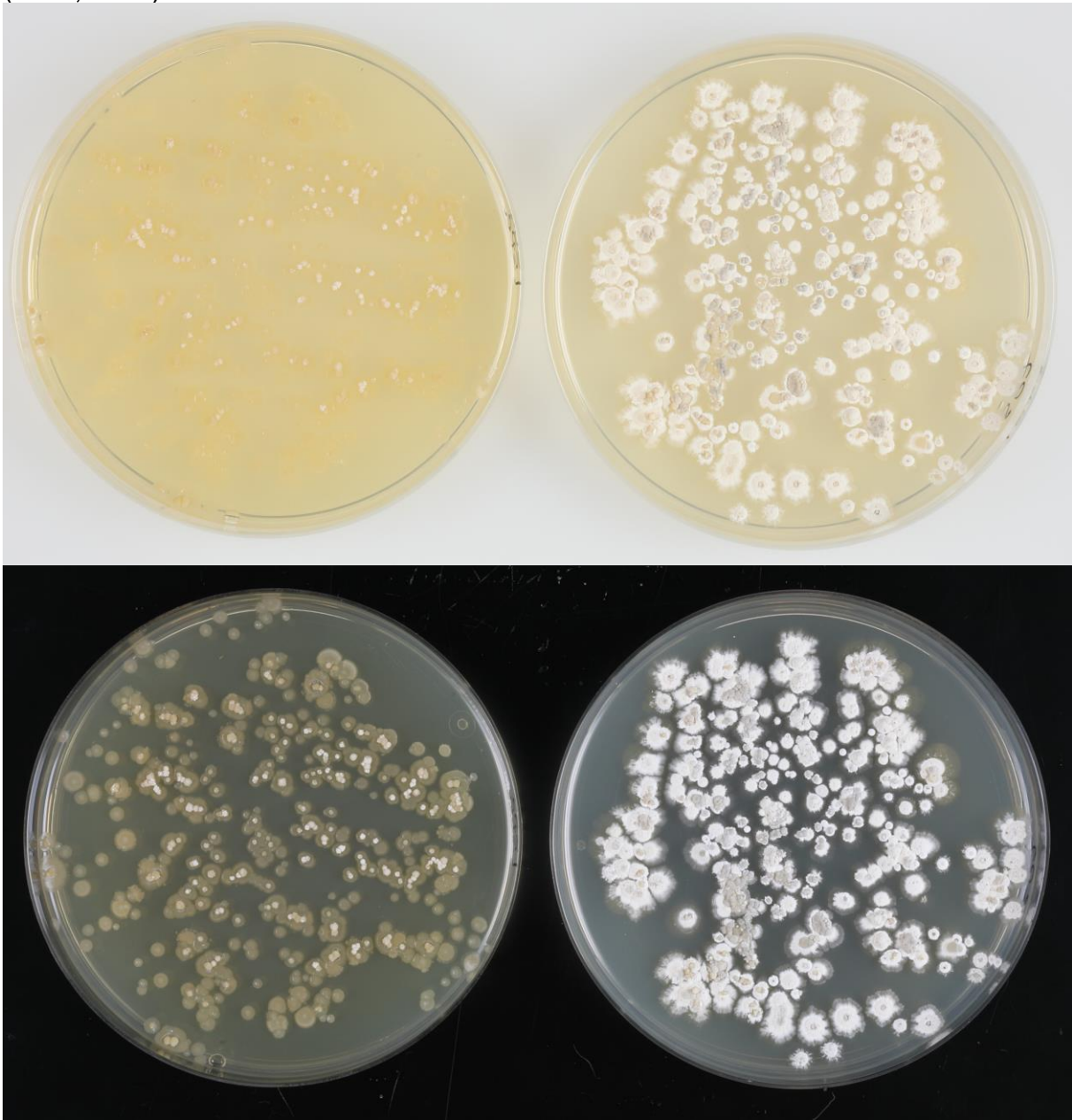


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

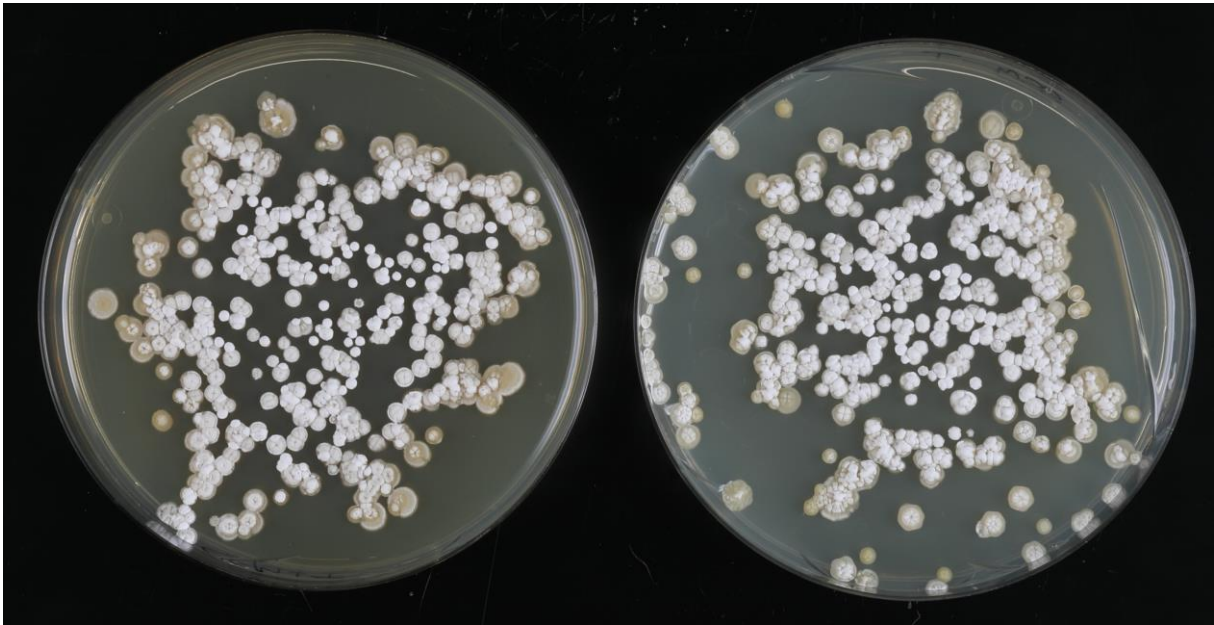
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



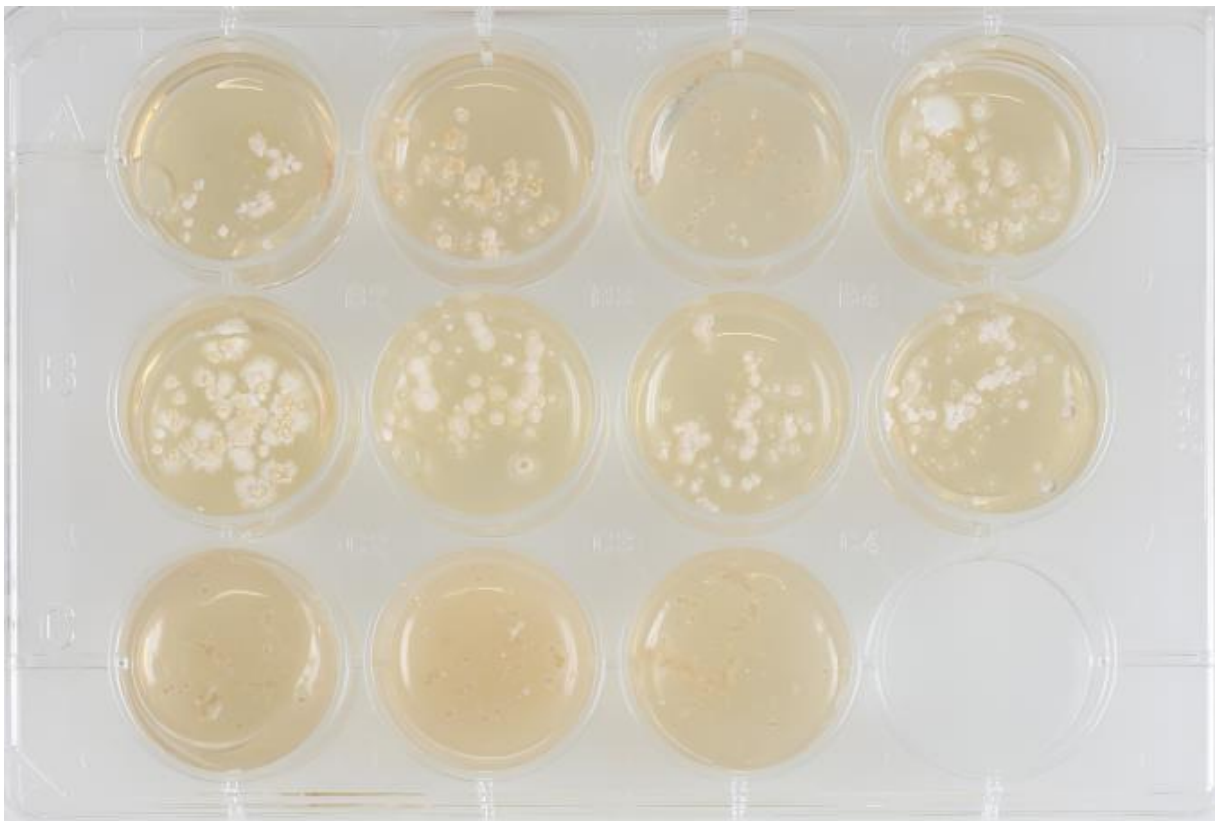
(ISP6, ISP7)



(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%)

