

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

Strain		DSM40128
Genus		<b><i>Streptomyces</i></b>
Species		<b><i>anulatus</i></b>
Status		valid
Risk group		1
Type strain		Schön. 192, ATCC 11523, ATCC 23209, CBS 478.68, ETH 12398, FBUA 431, IFO 12755, IMET 41360, IMRU 3657, ISP 5128, KCC S-0297, KCC S-0355, NRRL 2250, RIA 1020, NBRC 12755, LMG 20459, AS 4.1676
Genbank accession numbers		16S rRNA gene: MT760599
Reference		
Author		Skerman, V. B. D., McGowan, V., Sneath, P. H. A.
Title		Approved Lists of Bacterial Names.
Journal		<i>Int.J.Syst.Bacteriol</i>
Volume		30
Page		225-420
Year		180
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	golden yellow (1004)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	golden yellow (1004)
Agar	ISP 3 - A	oyster white (1013), sparse
Agar	ISP 3 - S	lemon yellow (1012)
Agar	ISP 4 - G	good
Agar	ISP 4 - R	sand yellow (1002)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	lemon yellow (1012)
Agar	ISP 5 - G	good
Agar	ISP 5 - R	honey yellow (1005)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	honey yellow (1005)
Agar	ISP 6 - G	good
Agar	ISP 6 - R	honey yellow (1005)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	honey yellow (1005)

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Agar	ISP 7 - A	silk grey (7044)
Agar	ISP 7 - S	honey yellow (1005)
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	honey yellow (1005)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	honey yellow (1005)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	brown beige (1011)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	ochre brown (8001)
	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)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	1
Api zym	Trypsin	1
Api zym	Chymotrypsin	4
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	3
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4

Api zym	beta glucosidase	1
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



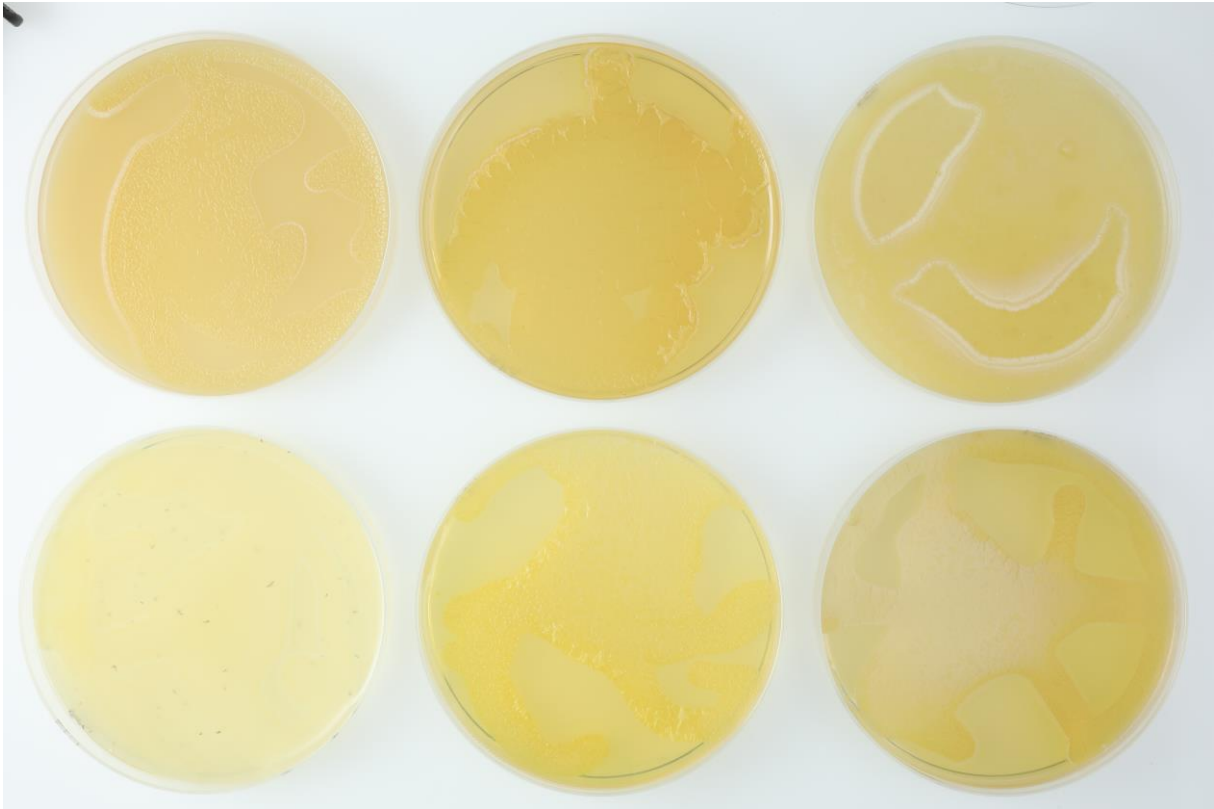
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

### Apizym

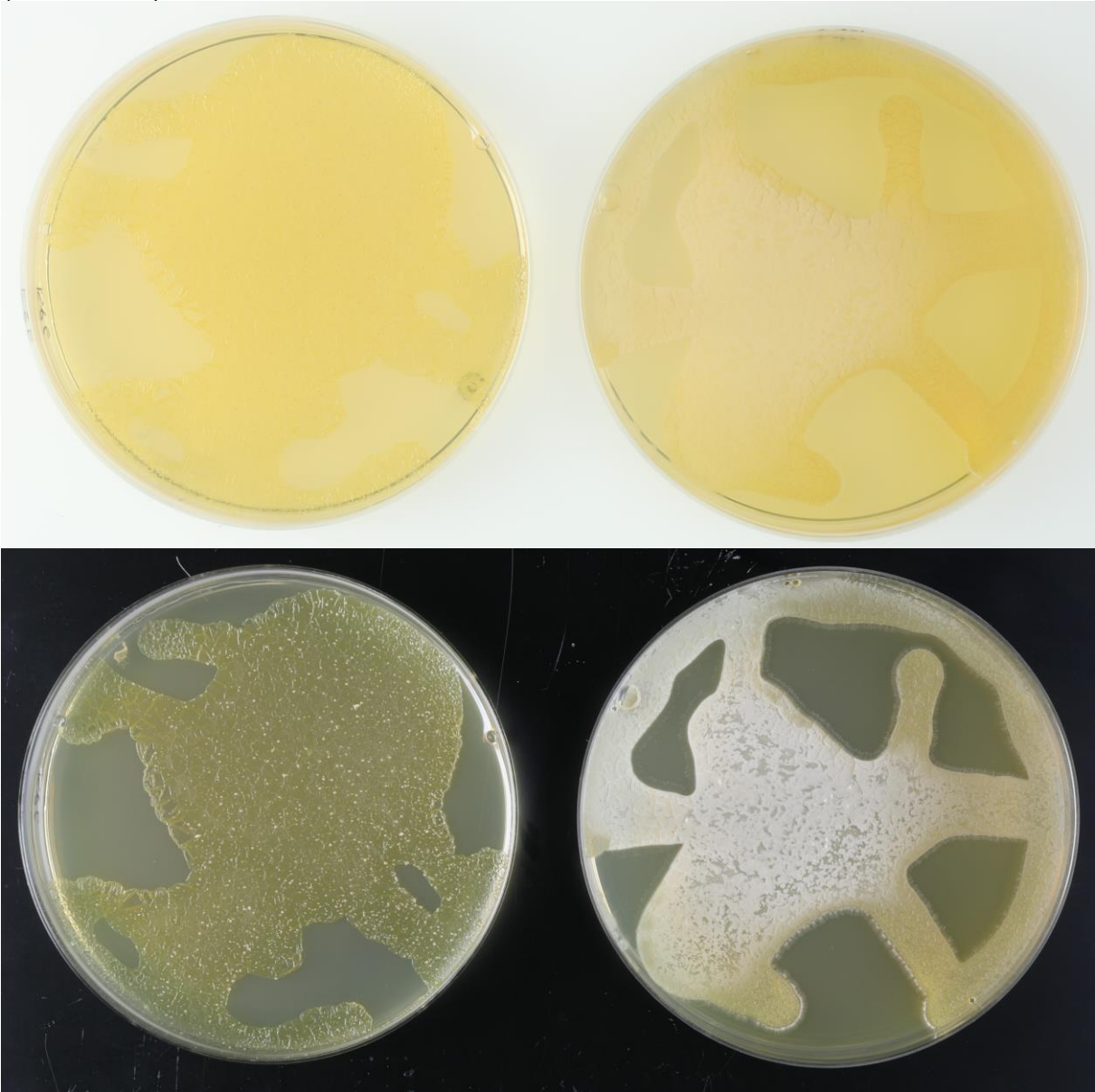


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

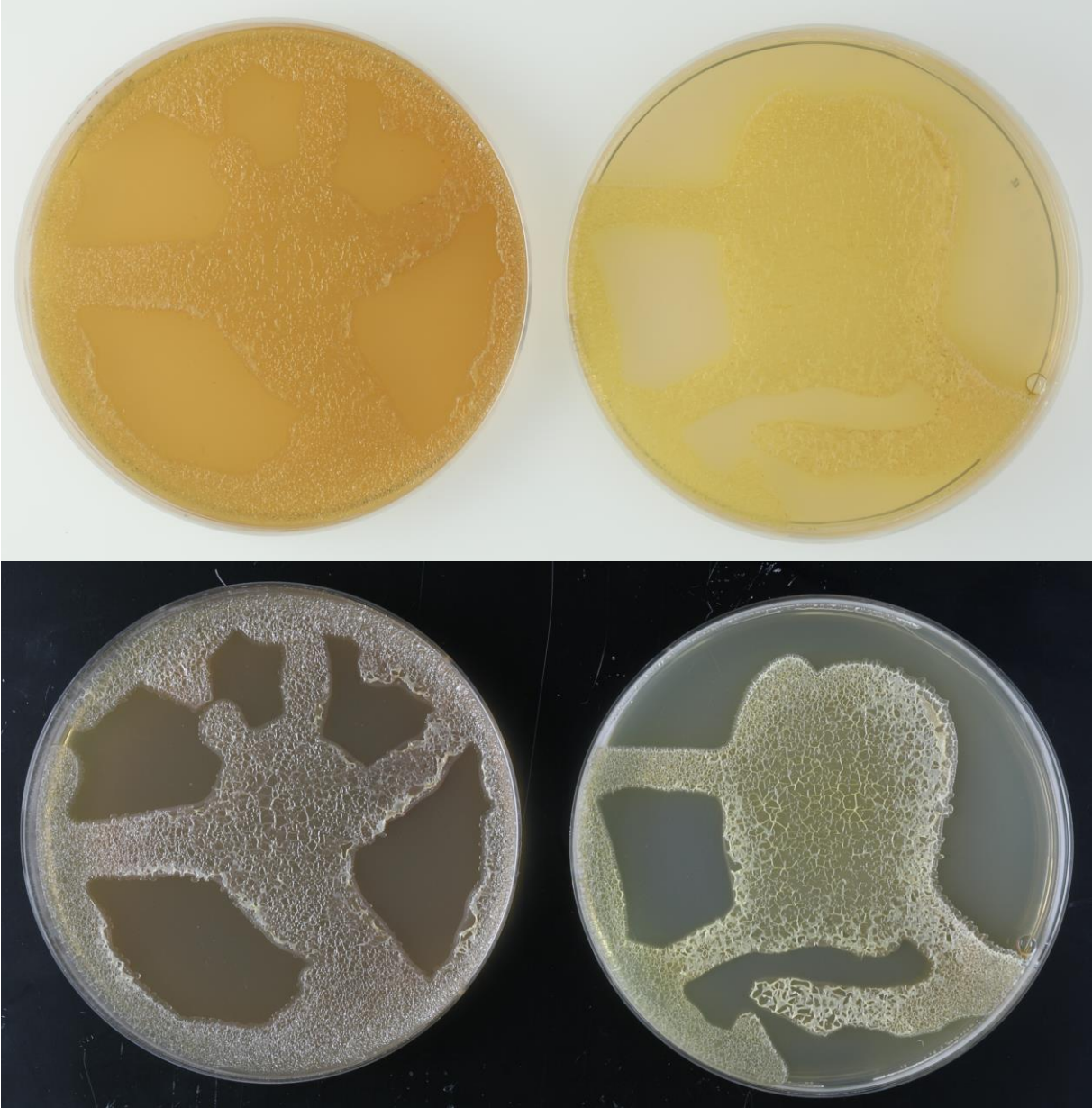
**Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)**



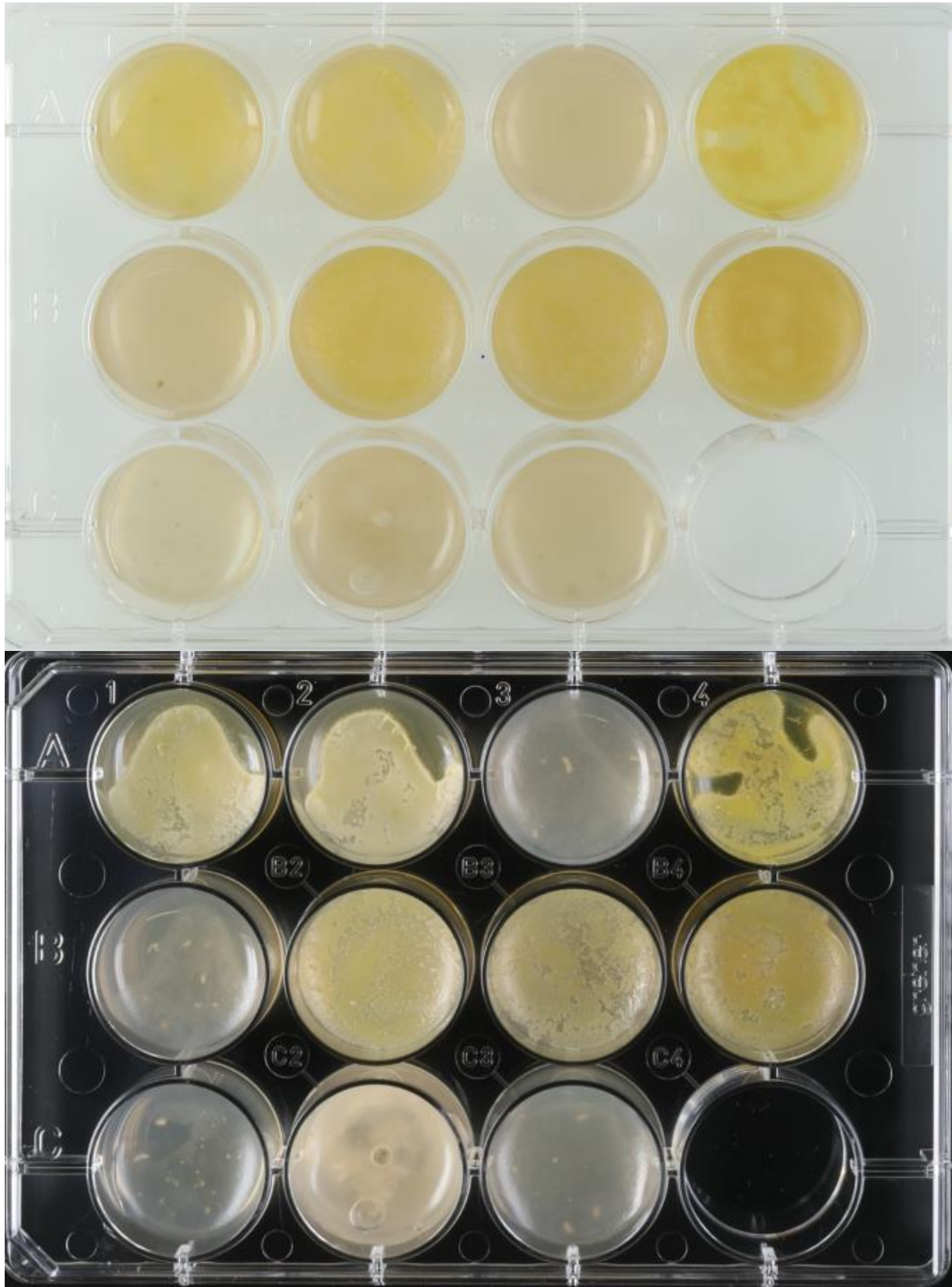
(ISP6, ISP7)



(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%)**

