

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 40346
Genus		<i>Streptomyces</i>
Species		<i>varsoviensis</i>
Status		
Risk group		L1
Type strain		AS 4.1431, ATCC 14631 C, ATCC 25505, BCRC 12647, CBS 357.64, CBS 647.69, CCRC 12647, DSM 40677, HAMBI 1046, IFO 13093, IMET 43351, JCM 4303, JCM 4523, NBRC 13093, NCIMB 9522, NRRL B-3589, NRRL ISP-5346, RIA 1285, VKM Ac-1000
Genbank accession numbers		16S rRNA gene: AB184306
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		1980
Author		Nouioui I, Carro L, Garcia-Lopez M, Meier-Kolthoff JP, Woyke T, Kyrpides NC, Pukall R, Klenk HP, Goodfellow M, Goker M.
Title		Genome-Based Taxonomic Classification of the Phylum <i>Actinobacteria</i>
Journal		<i>Front Microbiol</i>
Volume		9
Page		2007
Year		2018
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	ocher brown (8001), clay brown (8003)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	brown beige (1011)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	sand yellow (1002)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	sand yellow (1002)
Agar	ISP 4 - G	sparse
Agar	ISP 4 - R	brown beige (1011)
Agar	ISP 4 - A	none

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Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	copper brown (8004)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	brown beige (1011)
Agar	ISP 6 - G	good
Agar	ISP 6 - R	olive brown (8008), nut brown (8011)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	clay brown (8003)
Agar	ISP 7 - G	good
Agar	ISP 7 - R	signal orange (2010)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	sand yellow (1002)
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	brown beige (1011), beige brown (8024)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	ocher brown (8001)
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	ocher brown (8001)
	Sporechains/Sporangia	
Physiology		
Melanin		+ - (+) (+)
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		7,5%
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 alcaline	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	3

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Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	0
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	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	1
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



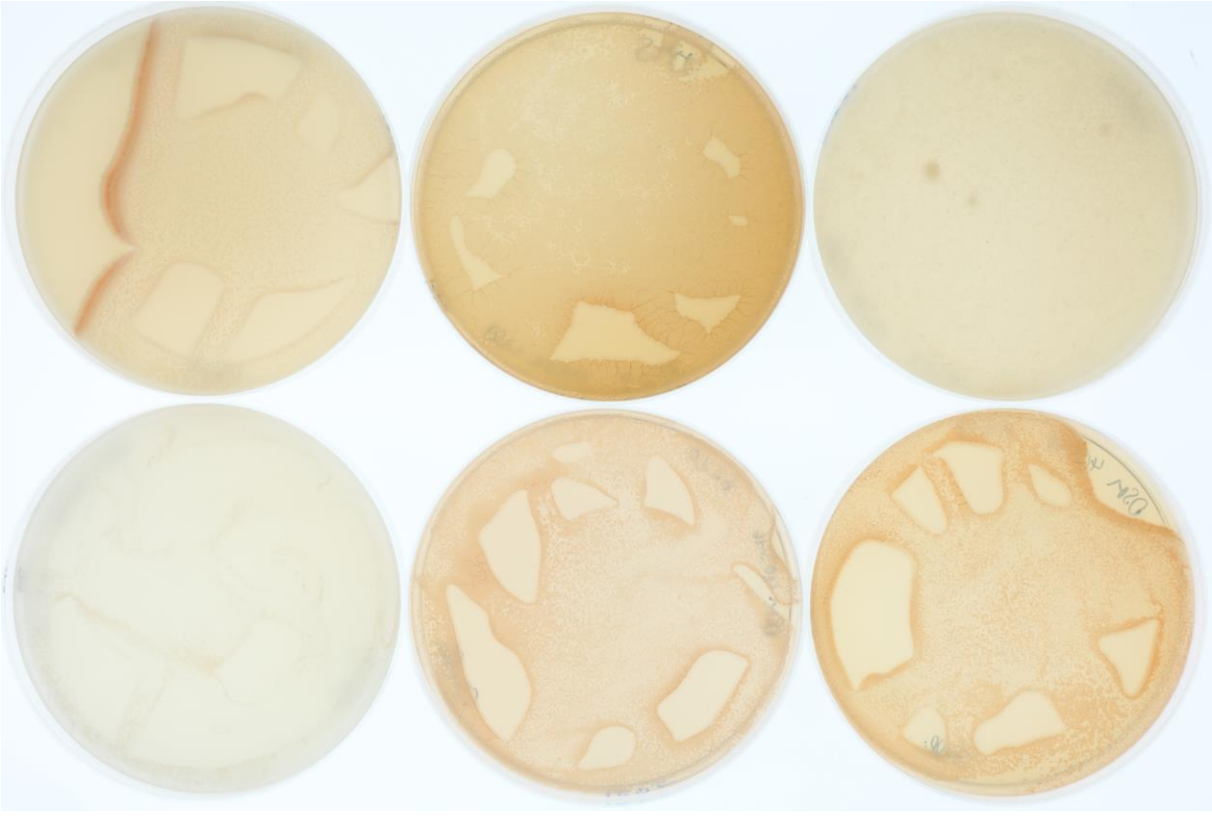
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 40346.

Apizym

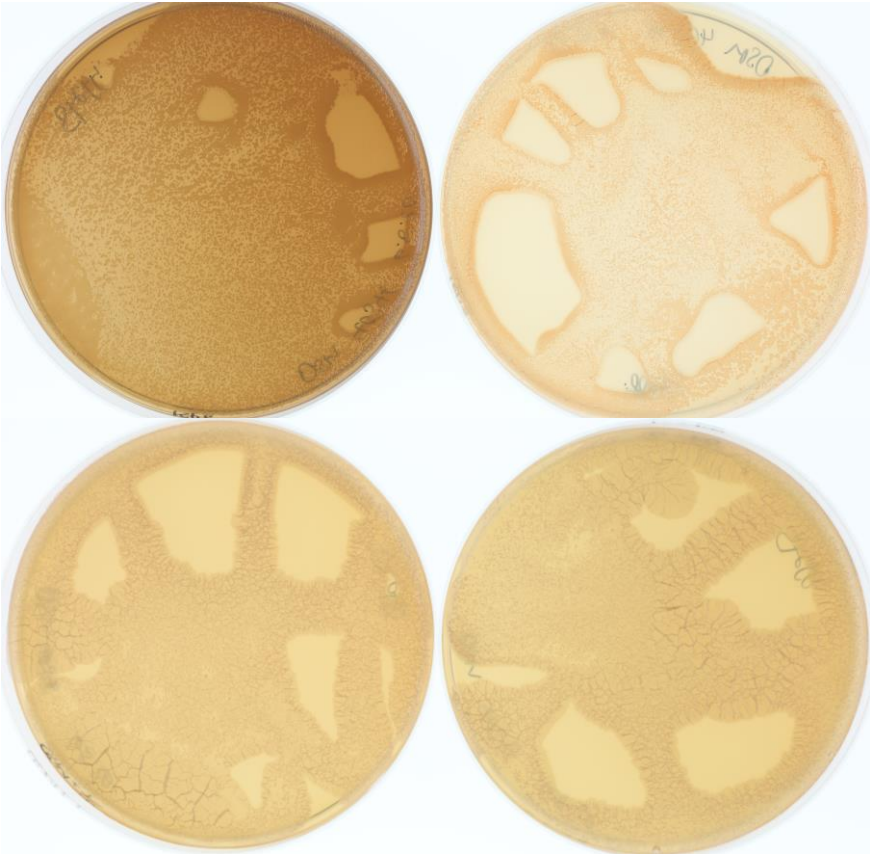


Abbildung 2: Apizym-Teststreifen mit Keim DSM 40346.

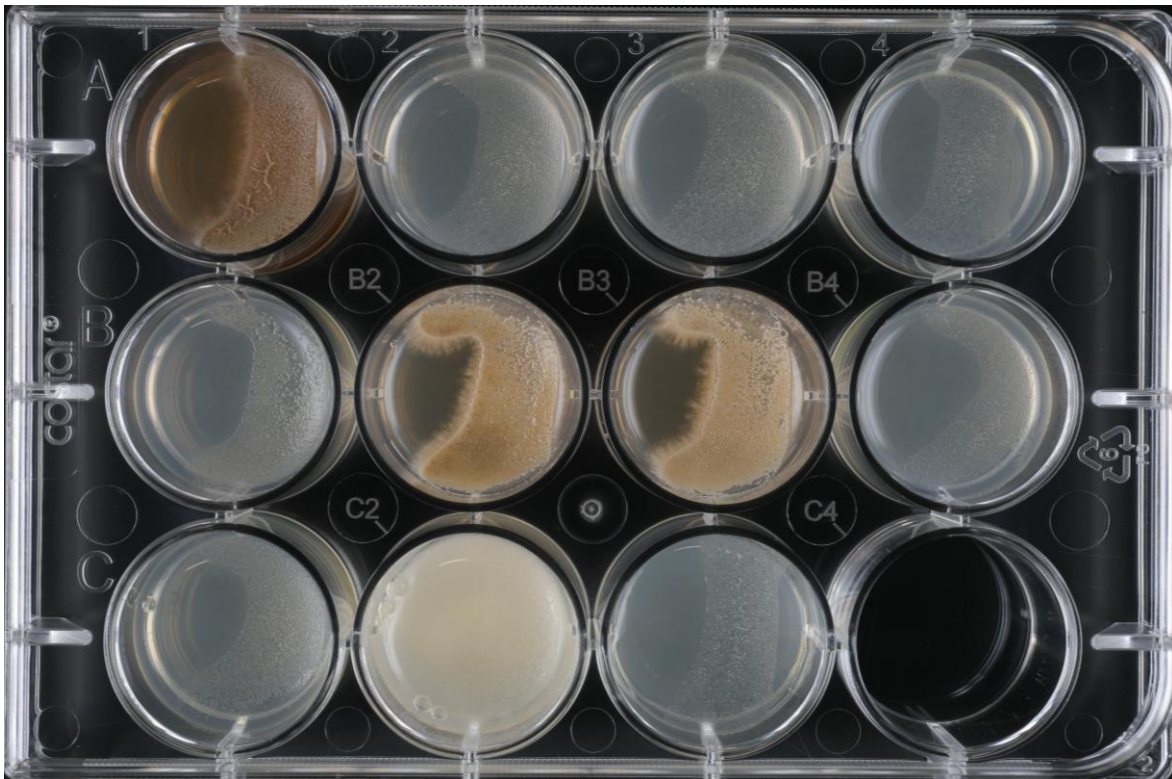
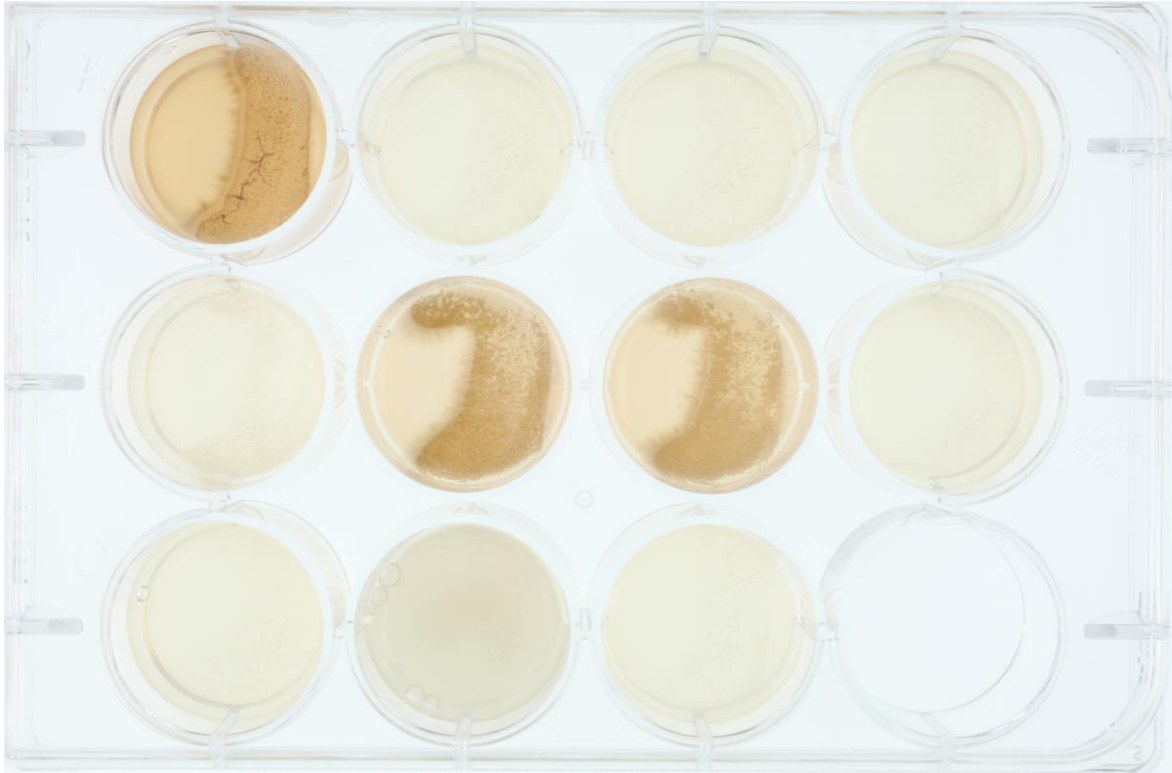
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

