

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

Strain		DSM 41398
Genus		<b><i>Streptomyces</i></b>
Species		<b><i>albus subsp. albus</i></b>
Status		valid
Risk group		1
Type strain		80,614, FERM P-419; ATCC 21838, KCC S-0703
Genbank accession numbers		complete genome: CP010519
Reference		
Author		Waksman, S. A., Henrici, A. T.
Title		The nomenclature and classification of the actinomycetes.
Journal		<i>J. Bacteriol.</i>
Volume		46
Page		337-341
Year		1943
Morphology		
Agar	ISP 2 - growth/G	sparse/good
Agar	ISP 2 - colony color/R	sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	grey white (9002)
Agar	ISP 2 - soluble pigment/S	sand yellow (1002)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	sand yellow (1002), brown beige (1011)
Agar	ISP 3 - A	grey white (9002)
Agar	ISP 3 - S	sand yellow (1002)
Agar	ISP 4 - G	good
Agar	ISP 4 - R	beige (1001), brown beige (1011)
Agar	ISP 4 - A	grey white (9002), good
Agar	ISP 4 - S	sand yellow (1002), sparse
Agar	ISP 5 - G	good
Agar	ISP 5 - R	beige (1001)
Agar	ISP 5 - A	grey white (9002)
Agar	ISP 5 - S	sand yellow (1002)
Agar	ISP 6 - G	sparse/good
Agar	ISP 6 - R	light ivory (1015) transparent
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	sand yellow (1002)
Agar	ISP 7 - A	grey white (9002)
Agar	ISP 7 - S	sand yellow (1002)
Agar	suter with tyrosine - G	good

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Agar	suter with tyrosine - R	sand yellow (1002), transparent
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	sand yellow (1002)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	sand yellow (1002), beige (1001), transparent
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	sand yellow (1002)
	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)	4
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	4
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4
Api zym	beta glucosidase	4
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	5

Api zym	alpha fucosidase	3
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



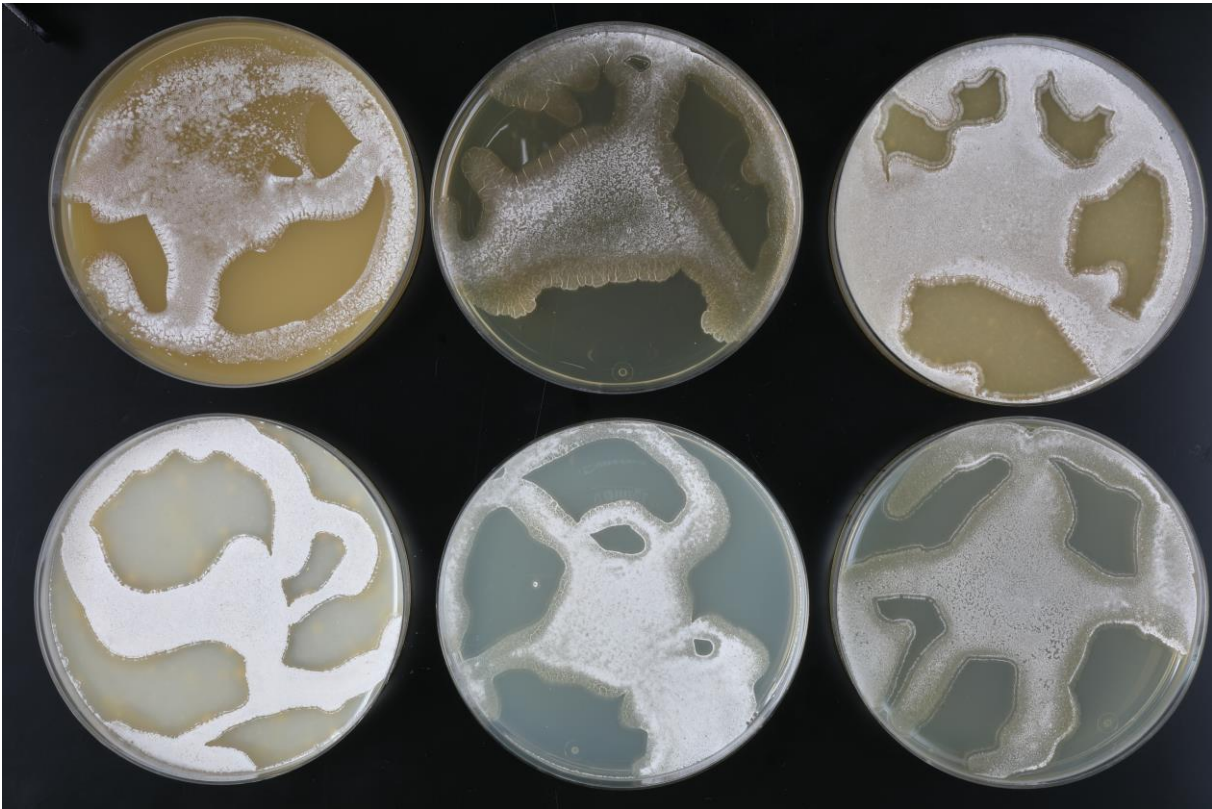
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

### Apizym

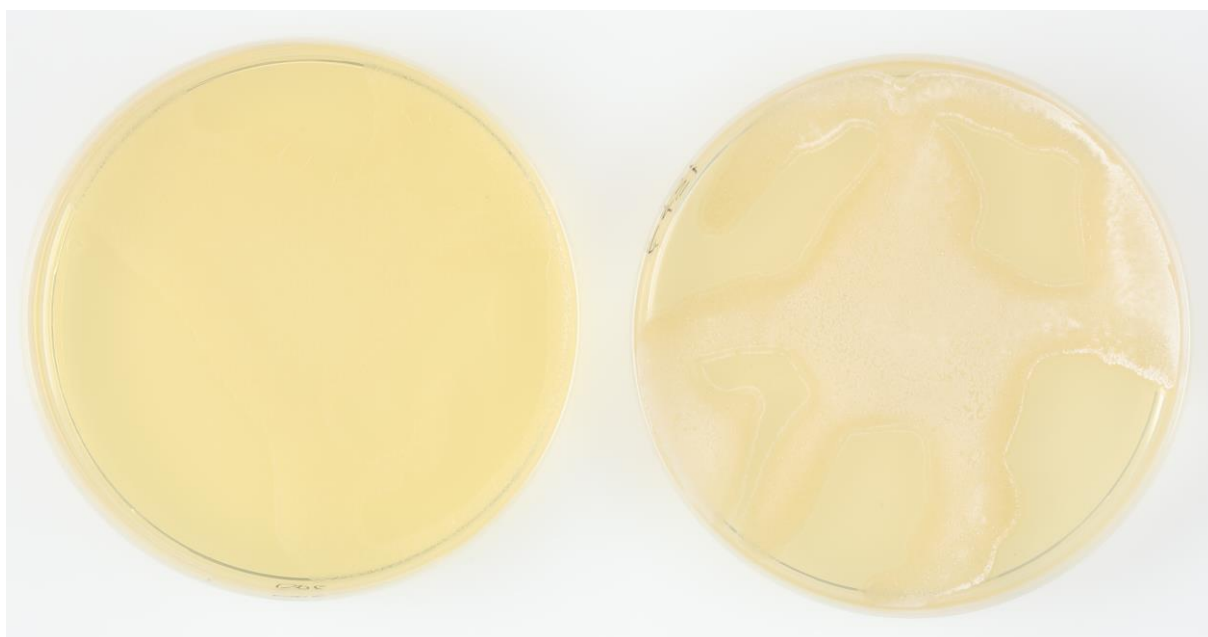


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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

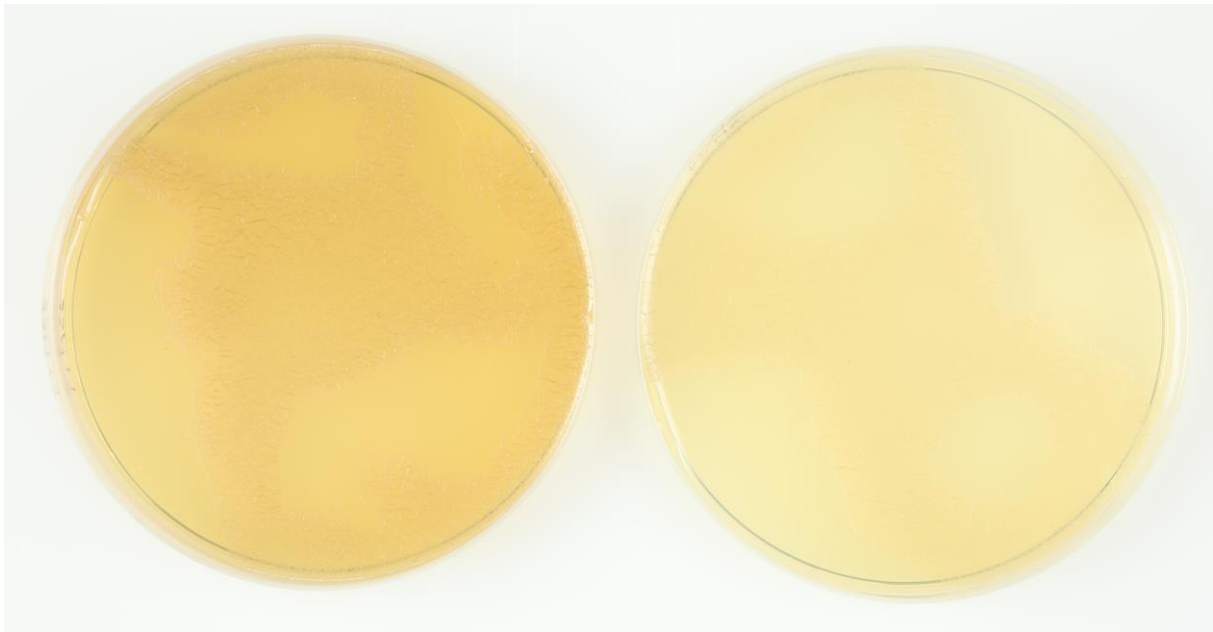


(ISP6,ISP7)

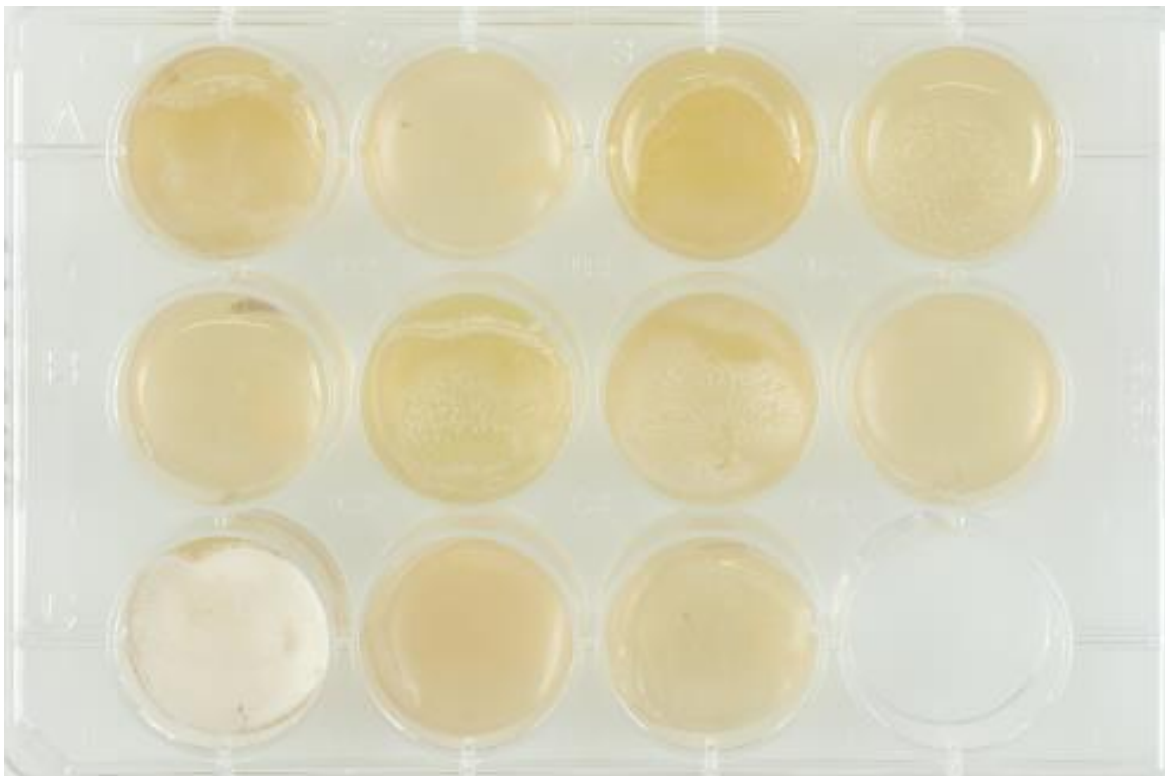




(SSM+T, SSM-T)



**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%)**

