Strain		DSM 40798
Genus		***Streptomyces***
Species		***sp.***
Status		valid
Risk group		1
Type strain		AE-415; ATCC 11611,ETH 16699,IFO 3125,KCC S-0118,RIA 631,NBRC 3125
Genbank accession numbers		
Reference		
Author		Grundy, W. E., Whitman, A. L., Rdzok, E. G., Rdzok, E. J., Hanes, M. E., Sylvester, J.C.
Title		Actithiazic acid. I. Microbiological studies
Journal		*Antibiot.Chemother*
Volume		2
Page		399-408
Year		1952
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	sand yellow (1002), olive yellow (1020)
Agar	ISP 2 - aerial mycelium/A	grey white (9002), good
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	mahogany brown (8016), black green (6012), sand yellow (1002)
Agar	ISP 3 - A	beige red (3012), silver grey (7001), signal white (9003), good
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	olive drab (6022)
Agar	ISP 4 - A	traffic white (9016), squirrel grey (7000), silver grey (7001), good
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	sand yellow (1002), olive yellow (1020)
Agar	ISP 5 - A	cream (9001), telegrey2 (7046), pure white (9010), good
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse/good
Agar	ISP 6 - R	khaki grey (7008)
Agar	ISP 6 - A	none

Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	blue green (6004), brown beige (1011), olive brown (8008)
Agar	ISP 7 - A	signal white (9003), telegrey 2 (7046), good
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	black brown (8022), chocolate brown (8017), olive grey (7002)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	olive brown (8008)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	ivory (1014), olive yellow (1020)
Agar	suter without tyrosine - A	papyrus white (9018), sparse
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		1 (- - + -)
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 alcaline	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	1
Api zym	Trypsin	1
Api zym	Chymotrypsin	5

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	2
Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	3
Api zym	alpha mannosidase	4
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	-

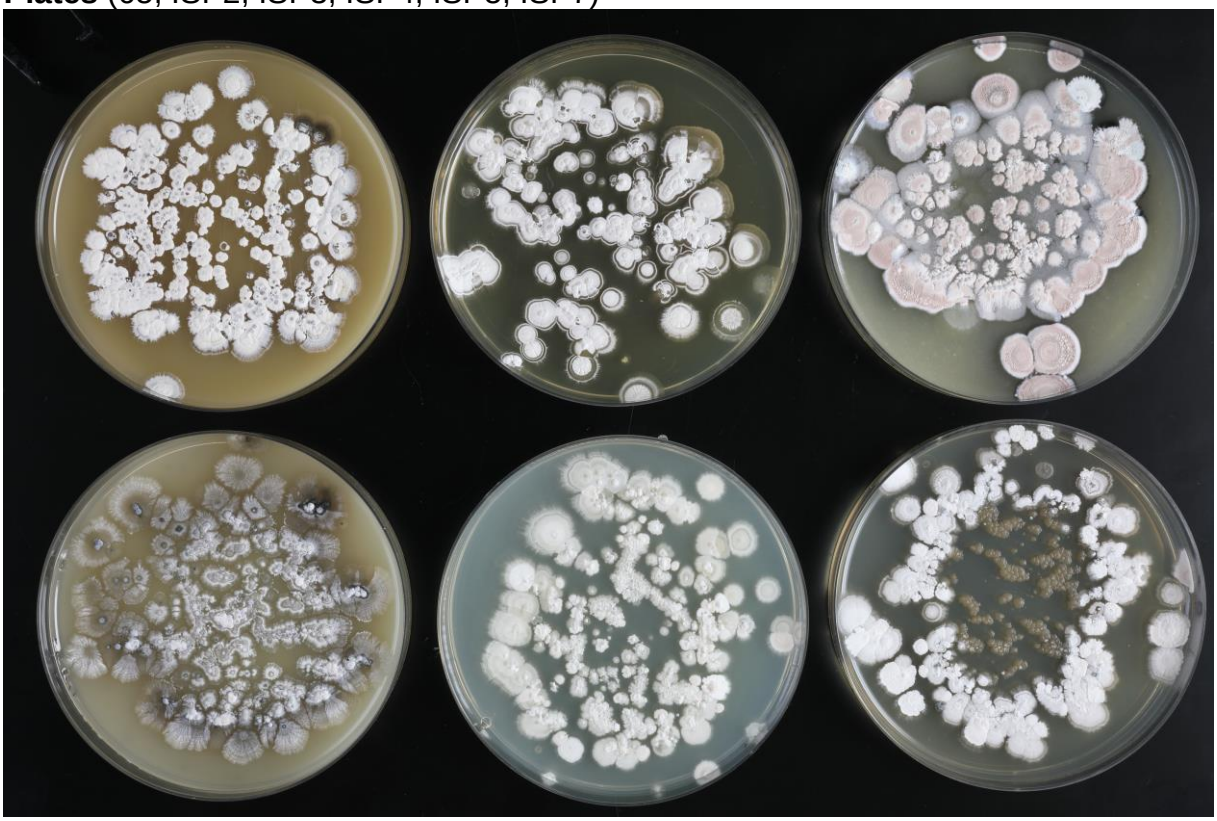
Apicoryne

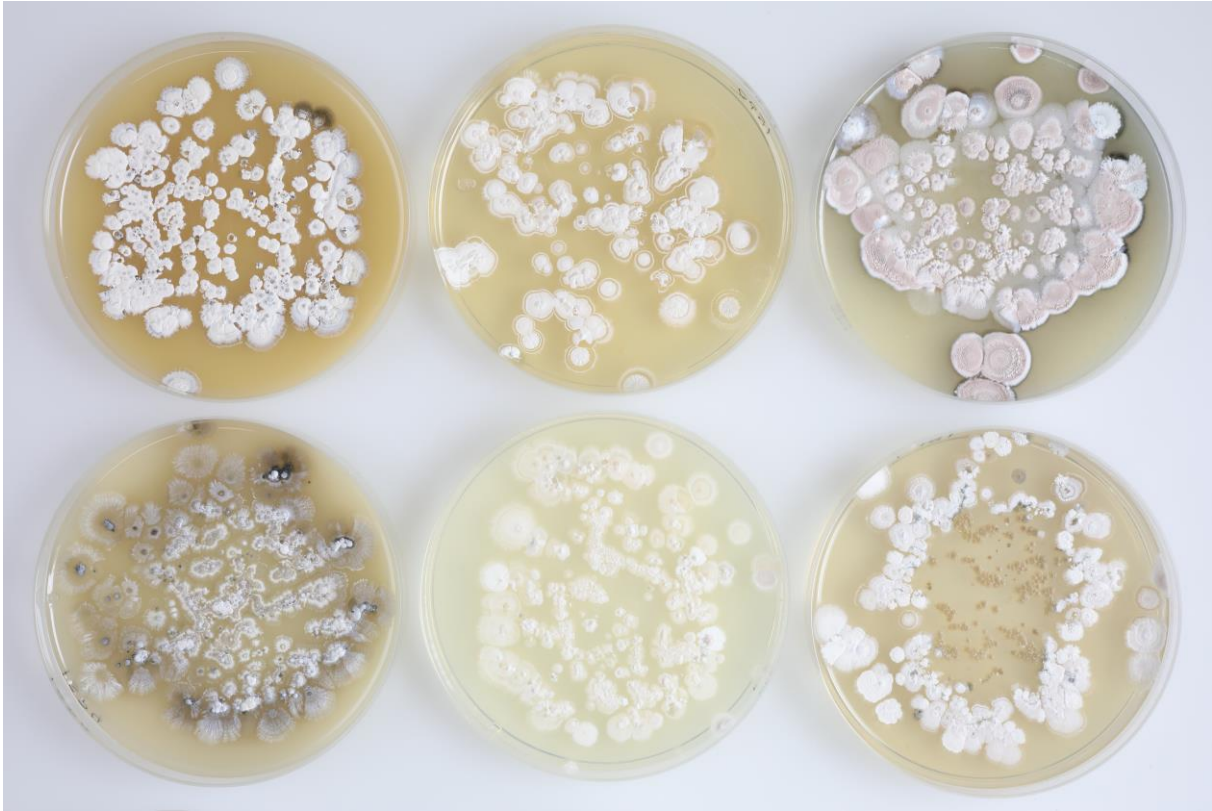
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

Apizym

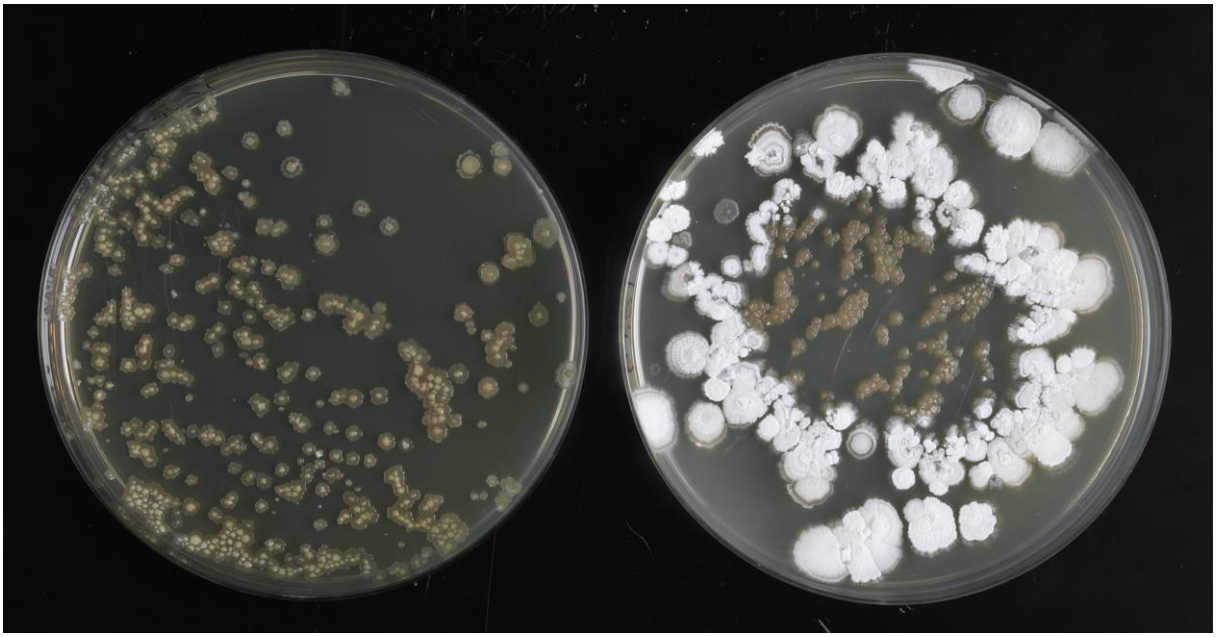
Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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

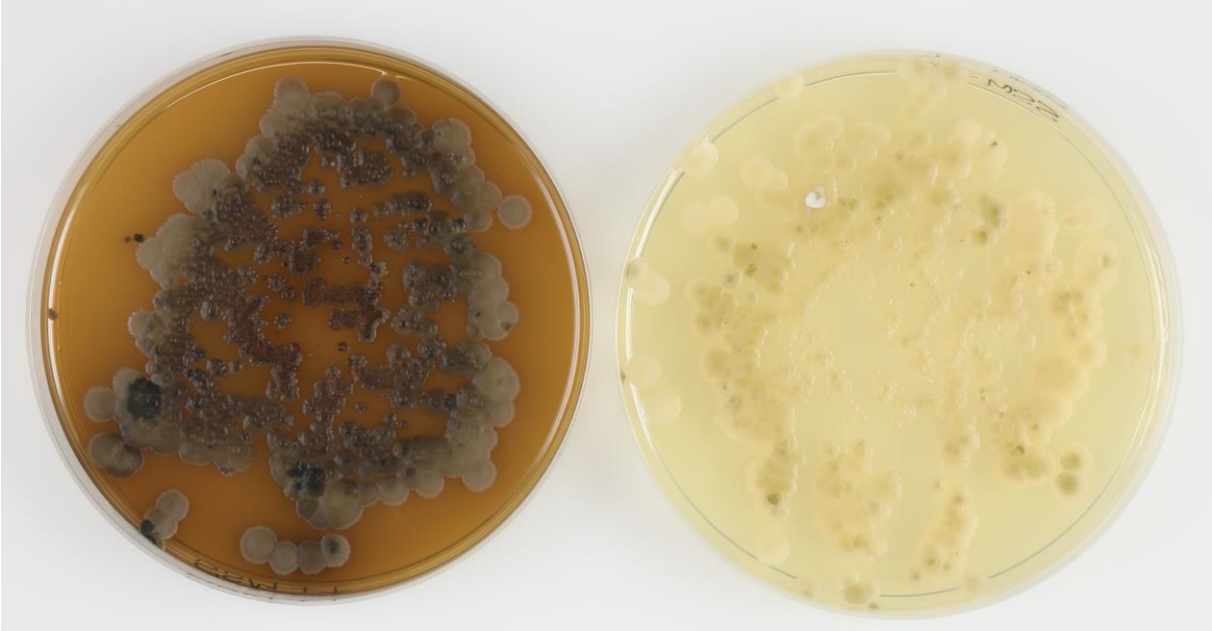


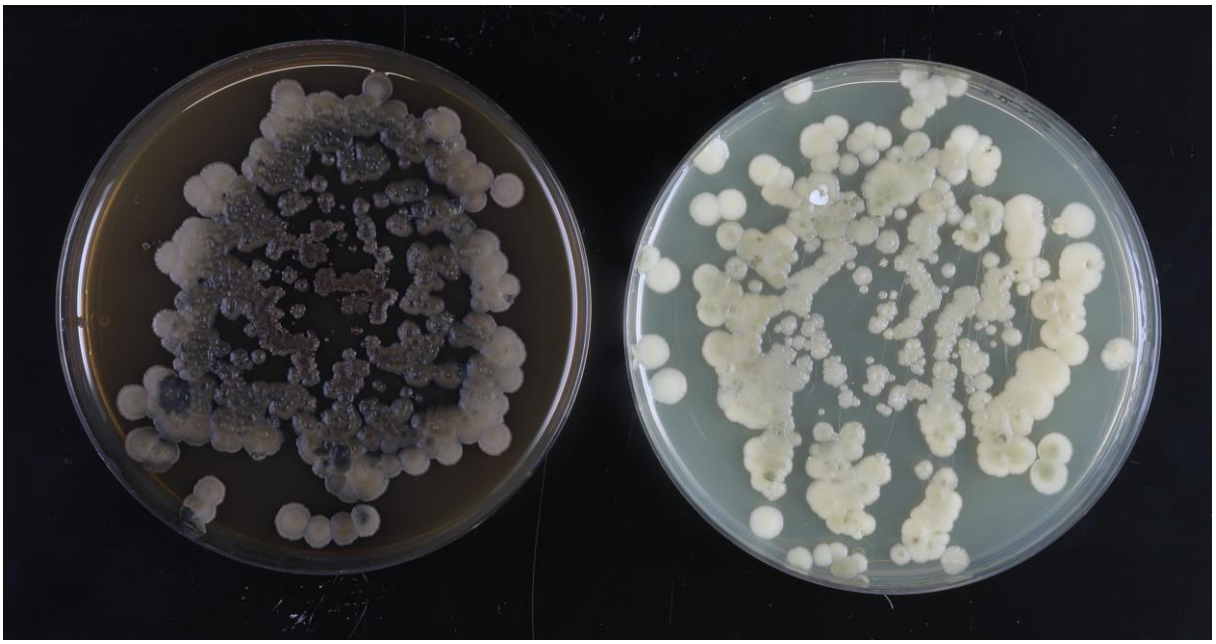


(ISP6, ISP7)

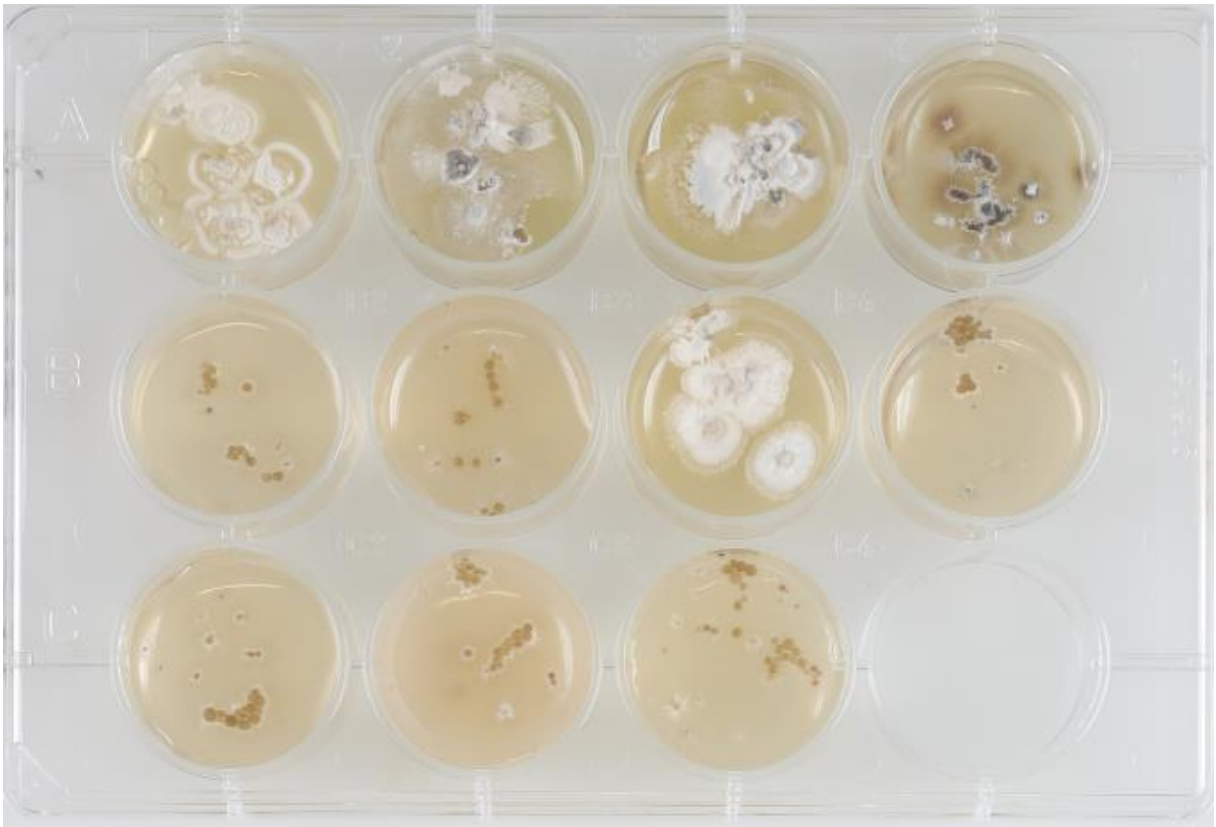


(SSM+T, SSM-T)





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%)