Strain		DSM 106197
Genus		***Streptomyces***
Species		***inhibens***
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		CGMCC 4.7469; DSM 106197; NEAU-D10
Genbank accession number		16S rRNA gene: MH727580 whole genome shotgun sequence: QUAC00000000
Reference		
Author		Jin, L., Zhao, Y., Song, W., Duan, L., Jiang, S., Wang, X., Zhao, J., Xiang, W.
Title		Streptomyces inhibens sp. nov., a novel actinomycete isolated from rhizosphere soil of wheat (Triticum aestivum L.)
Journal		Int J Syst Evol Microbiol
Volume		69 (3)
Page		688-695
Year		2019
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	9004 signal black
Agar	ISP 2 - aerial mycelium/A	Sparse, 7003 moss grey
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	9004 signal black, 8014 sepia brown
Agar	ISP 3 - A	Sparse, 7003 moss grey, 9003 signal white
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	7005 mouse grey
Agar	ISP 4 - A	Sparse, 7047 telegrey 4
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1024 ochre yellow, 7021 black grey
Agar	ISP 5 - A	Good, 9003 signal white, 7044 silk grey, 7003 moss grey
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good

Agar	ISP 6 - R	1002 sand yellow
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	1024 ochre yellow, 7021 black grey
Agar	ISP 7 - A	Good, 9003 signal white, 7044 silk grey, 7003 moss grey
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	1001 beige
Agar	suter with tyrosine - A	Sparse, 9003 signal white
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1001 beige
Agar	suter without tyrosine - A	Sparse, 9003 signal white
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		5%
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		
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)	1
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	3
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	5

Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	2
Api zym	beta glucosidase	2
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	3
Api zym	alpha fucosidase	4
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	-

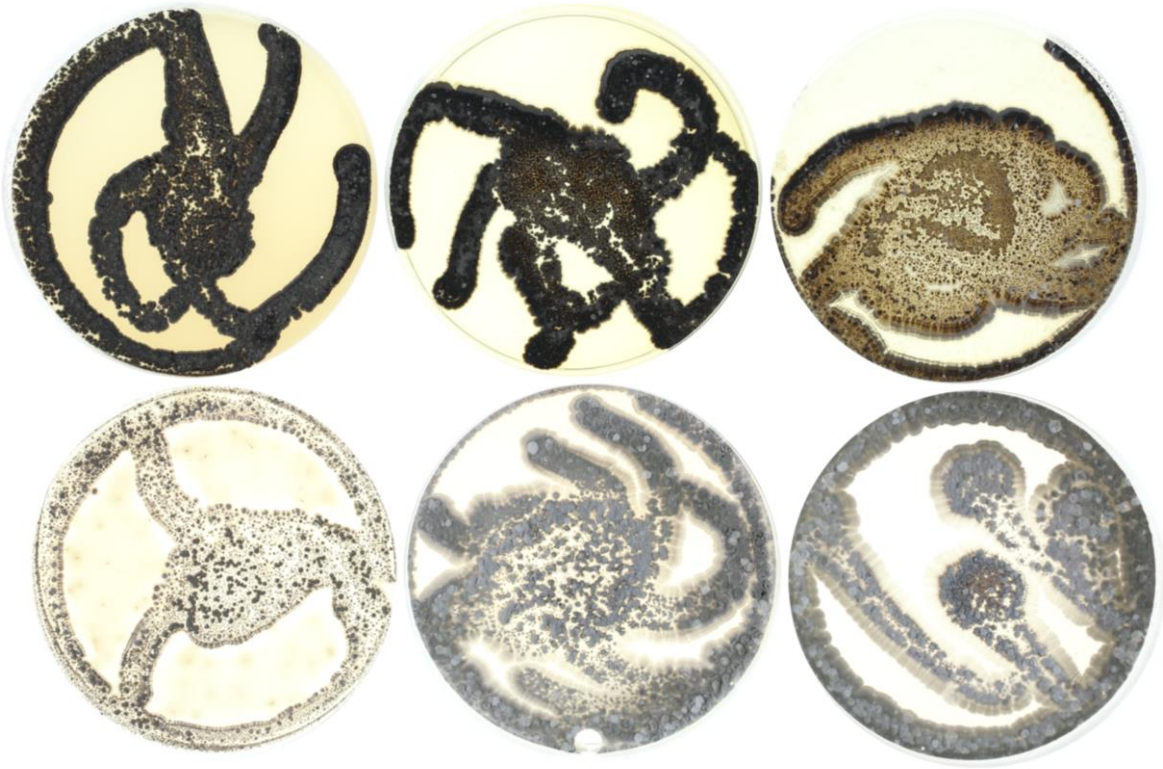
APIcoryne

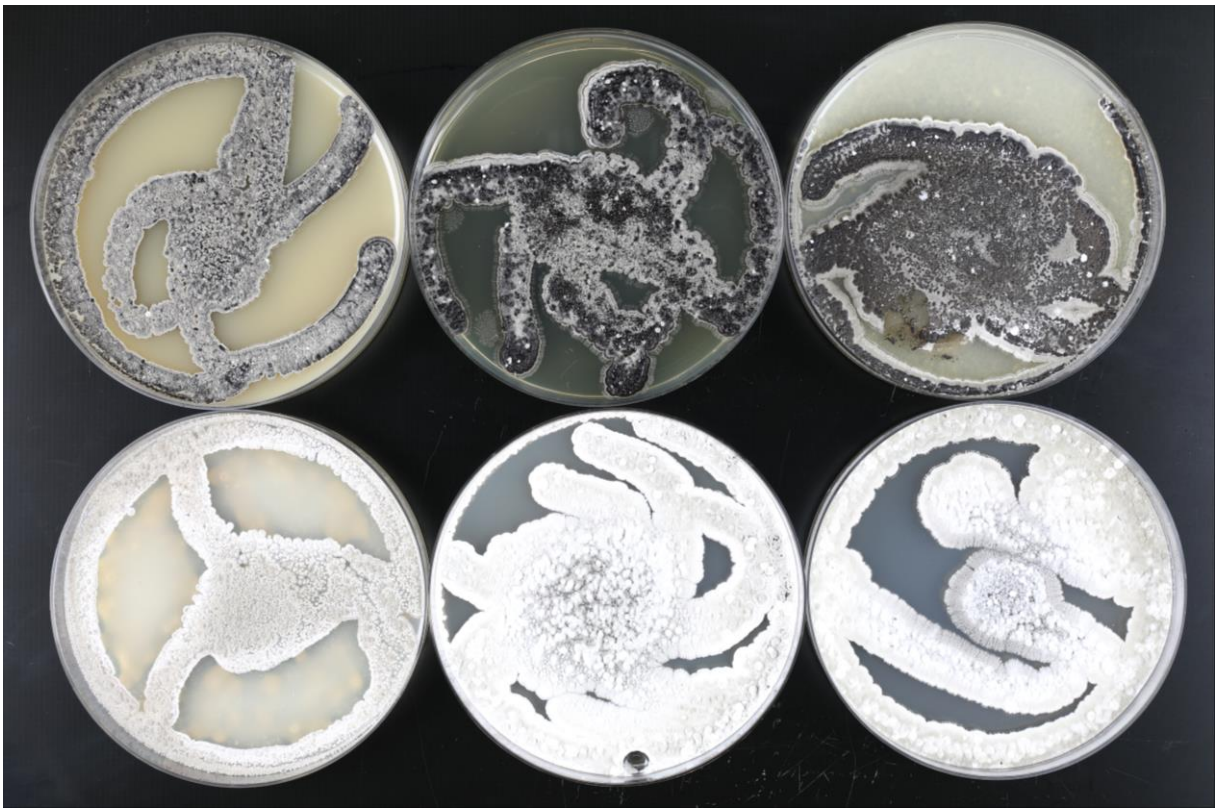
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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

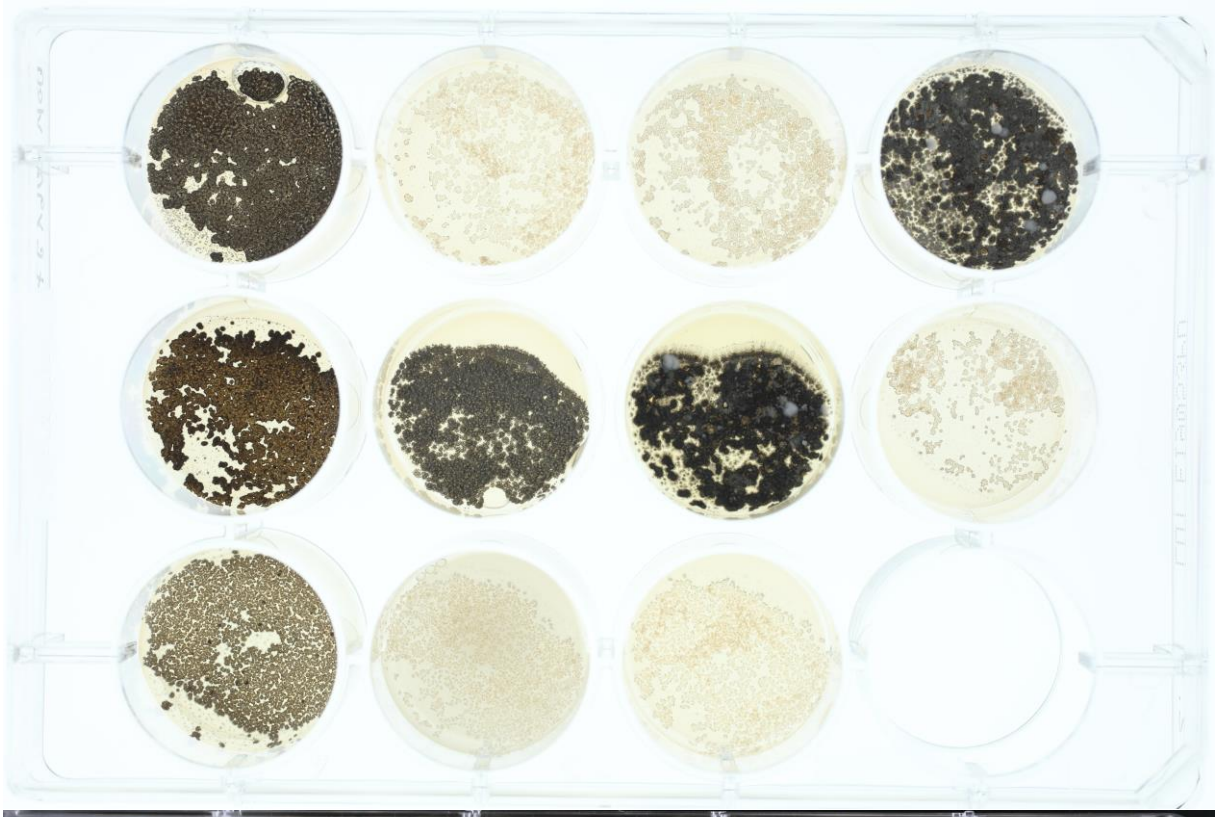


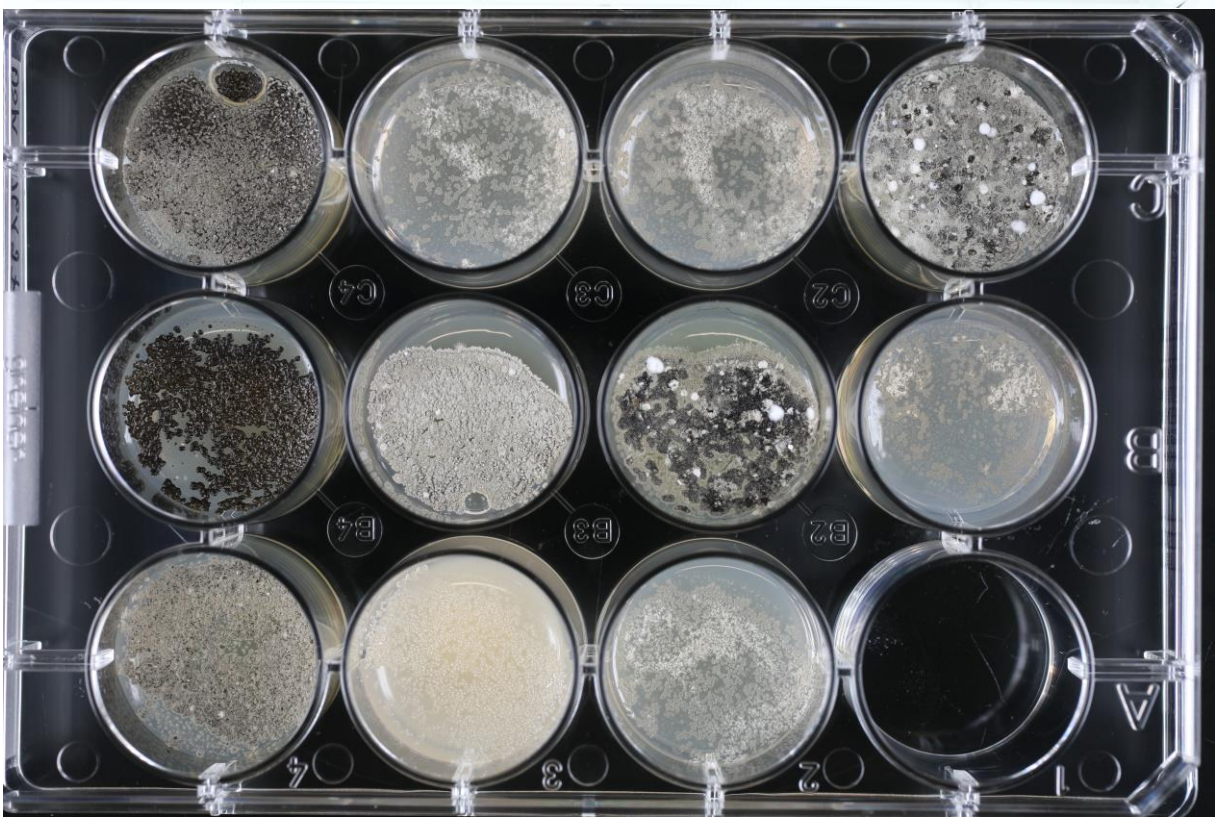


(ISP6, ISP7)

(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%)