Strain		DSM 45761
Genus		***Micromonospora***
Species		***mangrovi***
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		2803GPT1-18, CCTCC AA2012012
Genbank accession numbers		16S rRNA gene: JQ836668
Reference		
Author		Xie QY, Ren J, Li L, Li Y, Deng ZX, Hong K.
Title		*Micromonospora mangrovi* sp. nov., isolated from mangrove soil
Journal		*Antonie Van Leeuwenhoek*
Volume		**109**
Page		483-491
Year		2016
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	sepia brown (8014)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	clay brown (8003)
Agar	ISP 3 - G	sparse
Agar	ISP 3 - R	daffodil yellow (1007), signal orange (2010)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	beige red (3012)
Agar	ISP 4 - G	sparse
Agar	ISP 4 - R	copper brown (8004)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	beige red (3012)
Agar	ISP 5 - G	good
Agar	ISP 5 - R	fawn brown (8007), terra brown (8028)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	grey beige (1019)
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	golden yellow (1004), nut brown (8011)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	olive drab (6022)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	ochre yellow (1024)

Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	signal brown (8002)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	brown beige (1011)
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	maize yellow (1006)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		-
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	2
Api zym	Esterase (C4)	1
Api zym	Esterase Lipase (C8)	1
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	3
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	4
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	3
Api zym	N-acetyl-beta-glucoseamidase	4

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	-

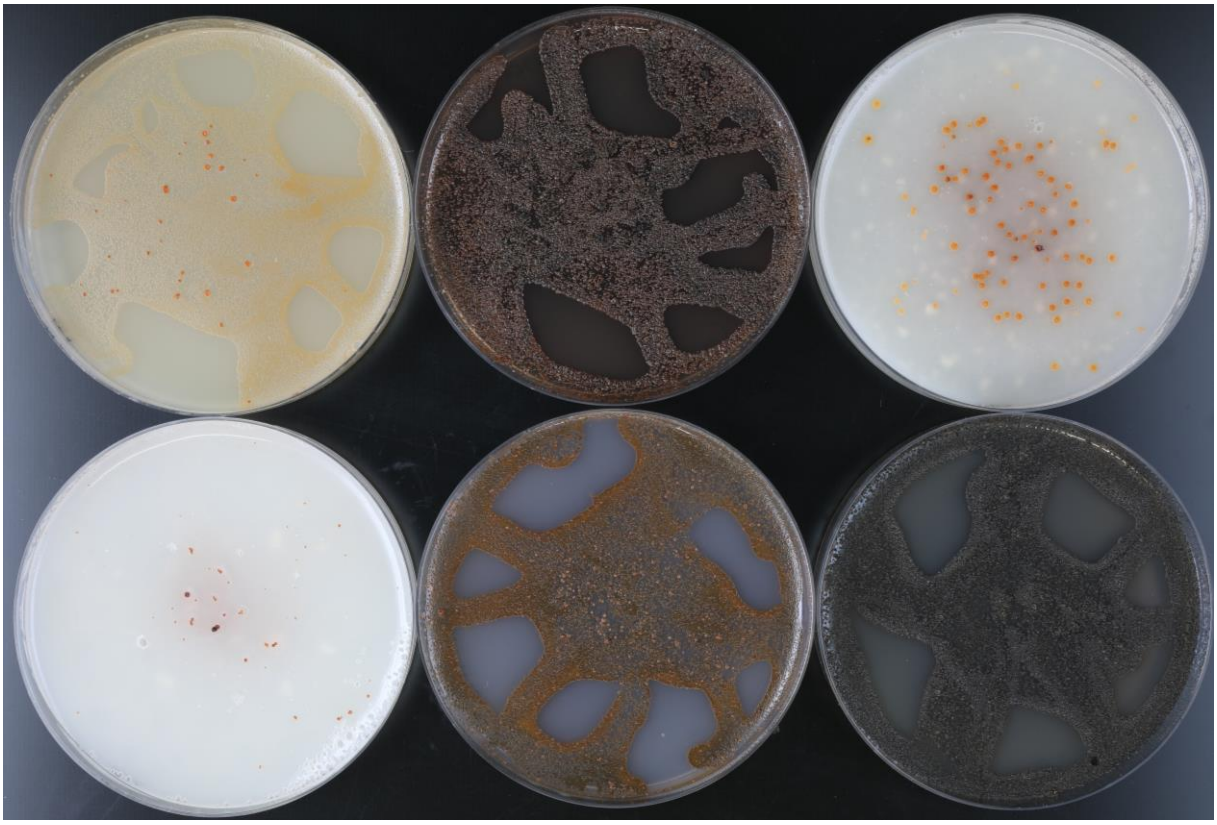
Apicoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 45761.

Apizym

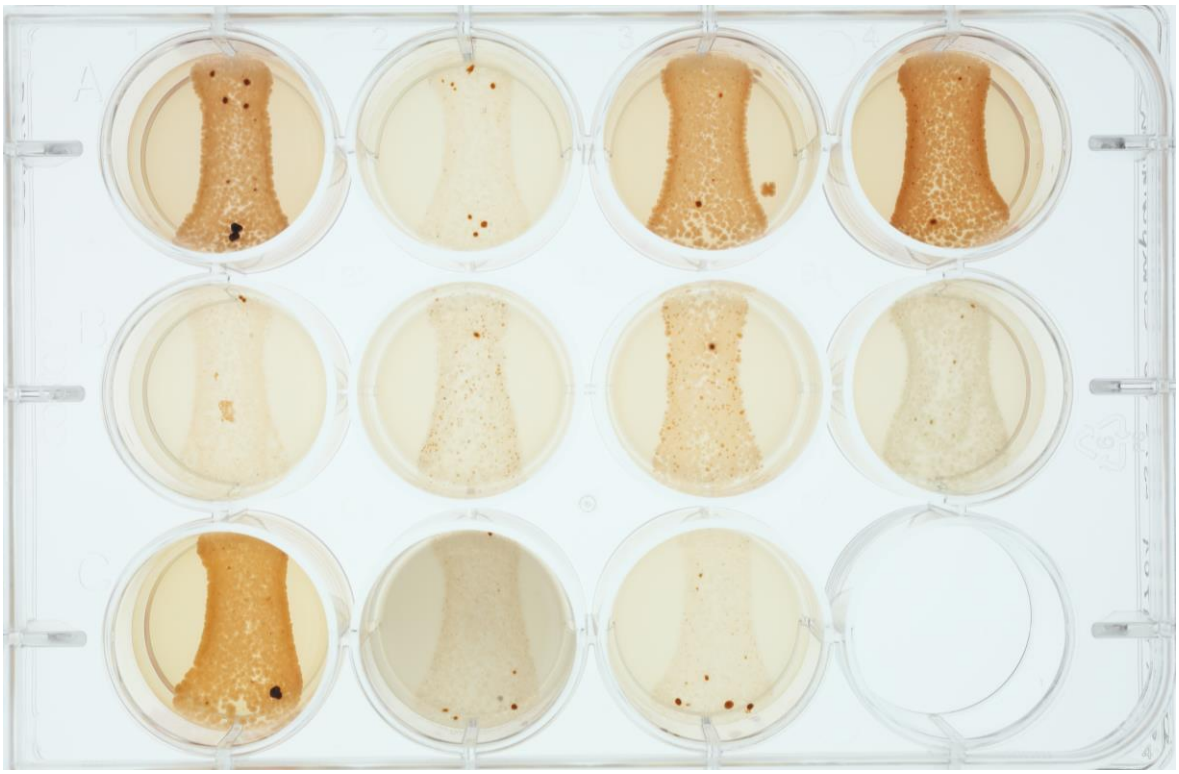
Abbildung 2: Apizym-Teststreifen mit Keim DSM 45761.

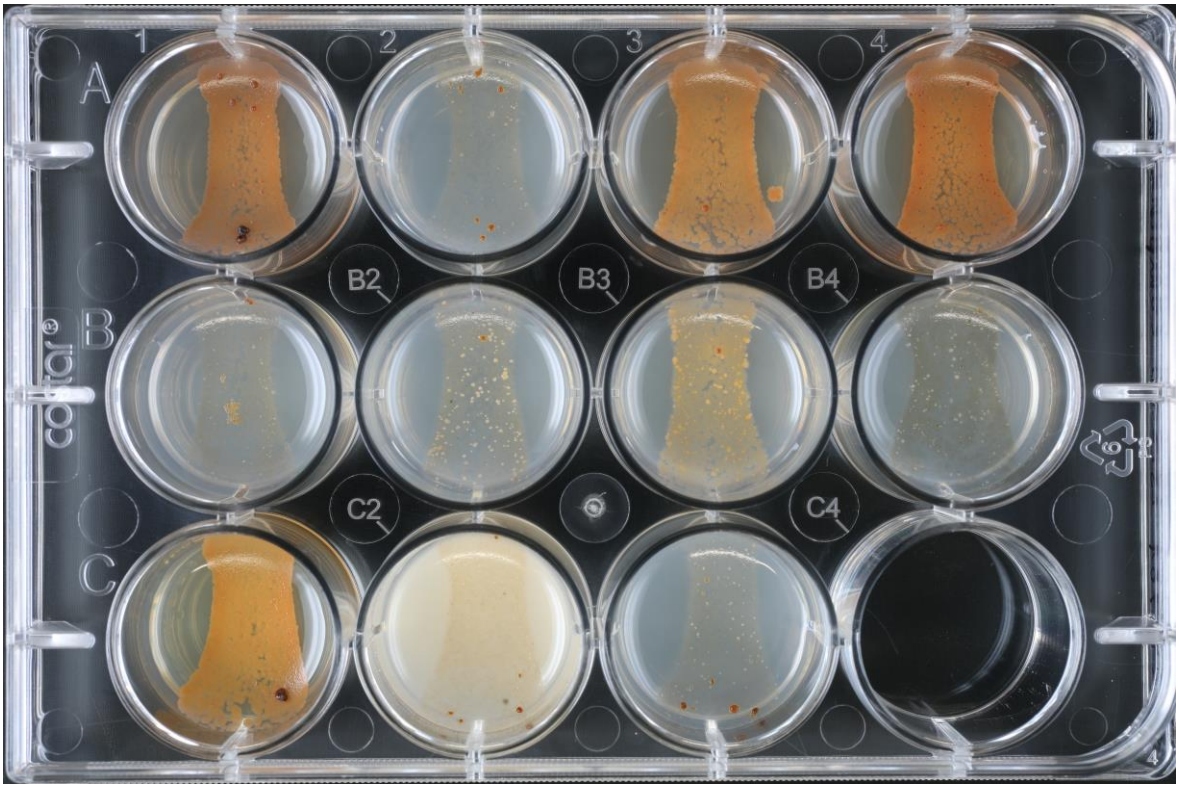
Plates (554, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)