Strain		DSM 104448
Genus		***Kibdelosporangium***
Species		***phytohabitans***
Status		
Risk group		L1
Type strain		KLBMP 1111, CCTCC AA 2010001, KCTC 19775
Genbank accession number		16S rRNA gene: HM153787
Reference		
Author		Xing, K., Bian, G. K., Qin, S., Klenk, H. P., Yuan, B., Zhang, Y. J., Li, W. J., Jiang, J. H.
Title		Kibdelosporangium phytohabitans sp. nov., a novel endophytic actinomycete isolated from oil-seed plant Jatropha curcas L. containing 1-aminocyclopropane-1-carboxylic acid deaminase
Journal		Antonie van Leeuwenhoek
Volume		101 (2)
Page		433-441
Year		2012
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	8019 grey brown
Agar	ISP 2 - aerial mycelium/A	Good, 9003 signal white
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1015 light ivory
Agar	ISP 3 - A	Good, 9003 signal white
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	8025 pale brown, 8019 grey brown
Agar	ISP 4 - A	Good, 9003 signal white
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1001 beige, 8019 grey brown
Agar	ISP 5 - A	Good, 9003 signal white
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	8019 grey brown, 7002 olive grey
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None

Agar	ISP 7 - G	Good
Agar	ISP 7 - R	8019 grey brown
Agar	ISP 7 - A	Good, 9003 signal white
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	8014 sepia brown, 8025 pale brown
Agar	suter with tyrosine - A	Sparse, 9003 signal white
Agar	suter with tyrosine - S	9005 jet black
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1014 ivory
Agar	suter without tyrosine - A	Sparse, 9003 signal white
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		1
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 alcaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	2
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	5
Api zym	Cystine arylamidase	2
Api zym	Trypsin	4
Api zym	Chymotrypsin	4
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	0

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	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	-
Metabolites		
Antimicrobial	Staphylococcus aureus	
Antimicrobial	Escherichia coli	
Antimicrobial	Micrococcus luteus	
Antimicrobial	Pseudomonas aeruginosa	
Antimicrobial	Streptomyces murinus	
Antimicrobial	Bacillus subtilis	
Antimicrobial	Candida albicans	
Antimicrobial	Saccharomyces cerevisiae	
Antimicrobial	Aspergillus niger	

APIcoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

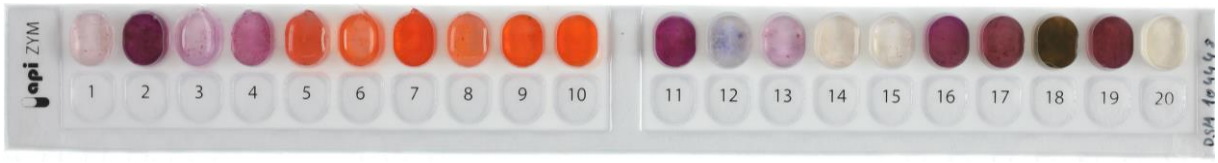
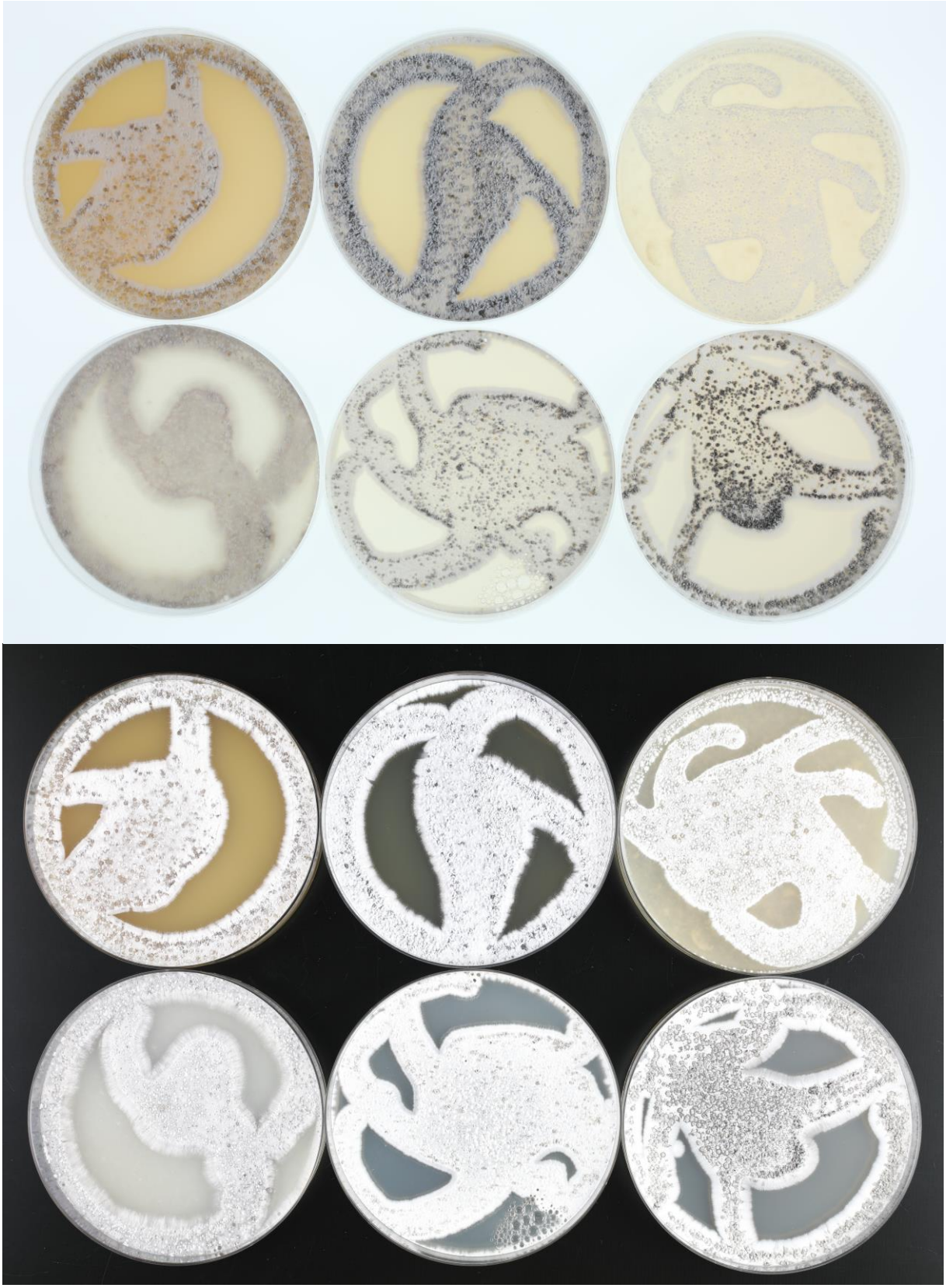
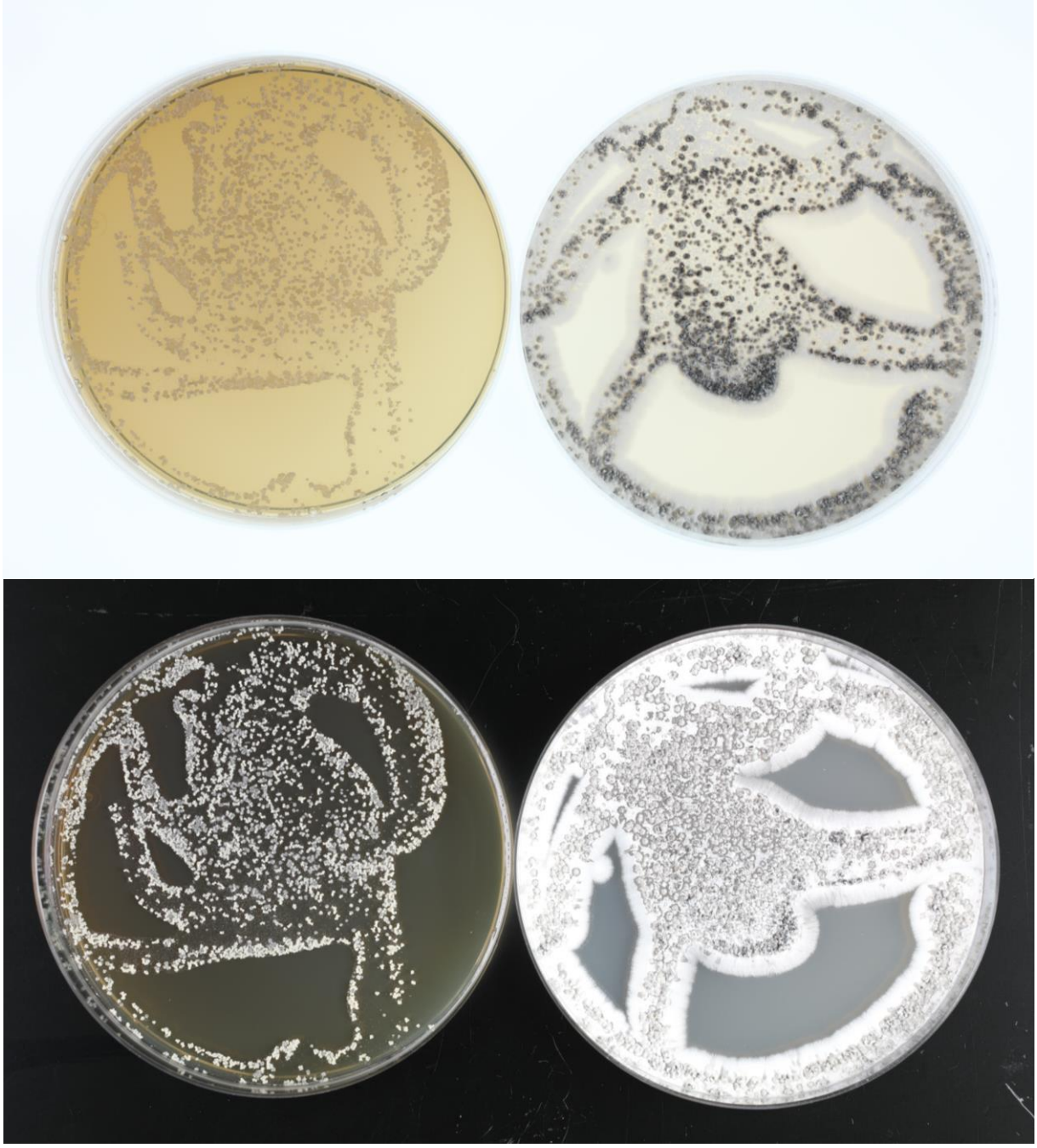


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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%)