

Strain		DSM 46738
Genus		<i>Planosporangium</i>
Species		<i>thailandense</i>
Status		
Risk group		L1
Type strain		HSS8-18, BCC 41917, JCM 17129
Genbank accession number		16S rRNA gene: AB560970
Reference		
Author		Thawai, C., Thamsathit, W., Kudo, T.
Title		<i>Planosporangium thailandense</i> sp. nov., isolated from soil from a Thai hot spring
Journal		Int J Syst Evol Microbiol
Volume		63 (Pt3)
Page		1051-5
Year		2013
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	1001 Beige, 1006 Maize yellow
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	None
Agar	ISP 3 - R	-
Agar	ISP 3 - A	-
Agar	ISP 3 - S	-
Agar	ISP 4 - G	None
Agar	ISP 4 - R	-
Agar	ISP 4 - A	-
Agar	ISP 4 - S	-
Agar	ISP 5 - G	Sparse
Agar	ISP 5 - R	1002 Sand yellow
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	None
Agar	ISP 6 - R	-
Agar	ISP 6 - A	-
Agar	ISP 6 - S	-
Agar	ISP 7 - G	Sparse
Agar	ISP 7 - R	1001 Beige
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Sparse

Agar	suter with tyrosine - R	1002 Sand yellow
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	None
Agar	suter without tyrosine - R	-
Agar	suter without tyrosine - A	-
Agar	suter without tyrosine - S	-
	Sporechains/Sporangia	
Physiology		
Melanin		0
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	1
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	1
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	1
Api zym	Valine arylamidase	0
Api zym	Cystine arylamidase	1
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	0
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	1
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	1
Api zym	N-acetyl-beta-glucosaminidase	1
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 glucosaminidase	-
Api coryne	Esclulin (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	

APlcoryne



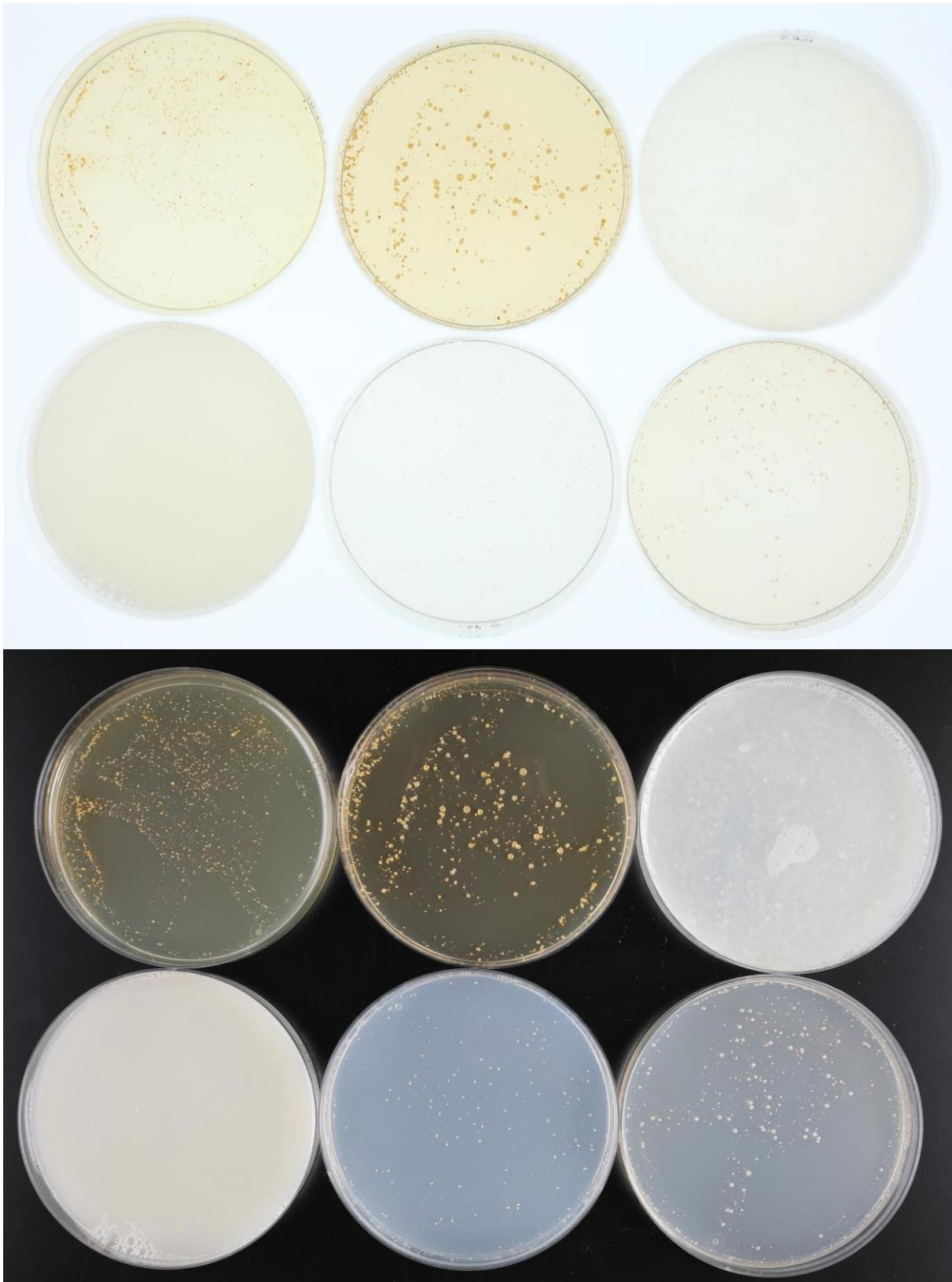
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APlzym

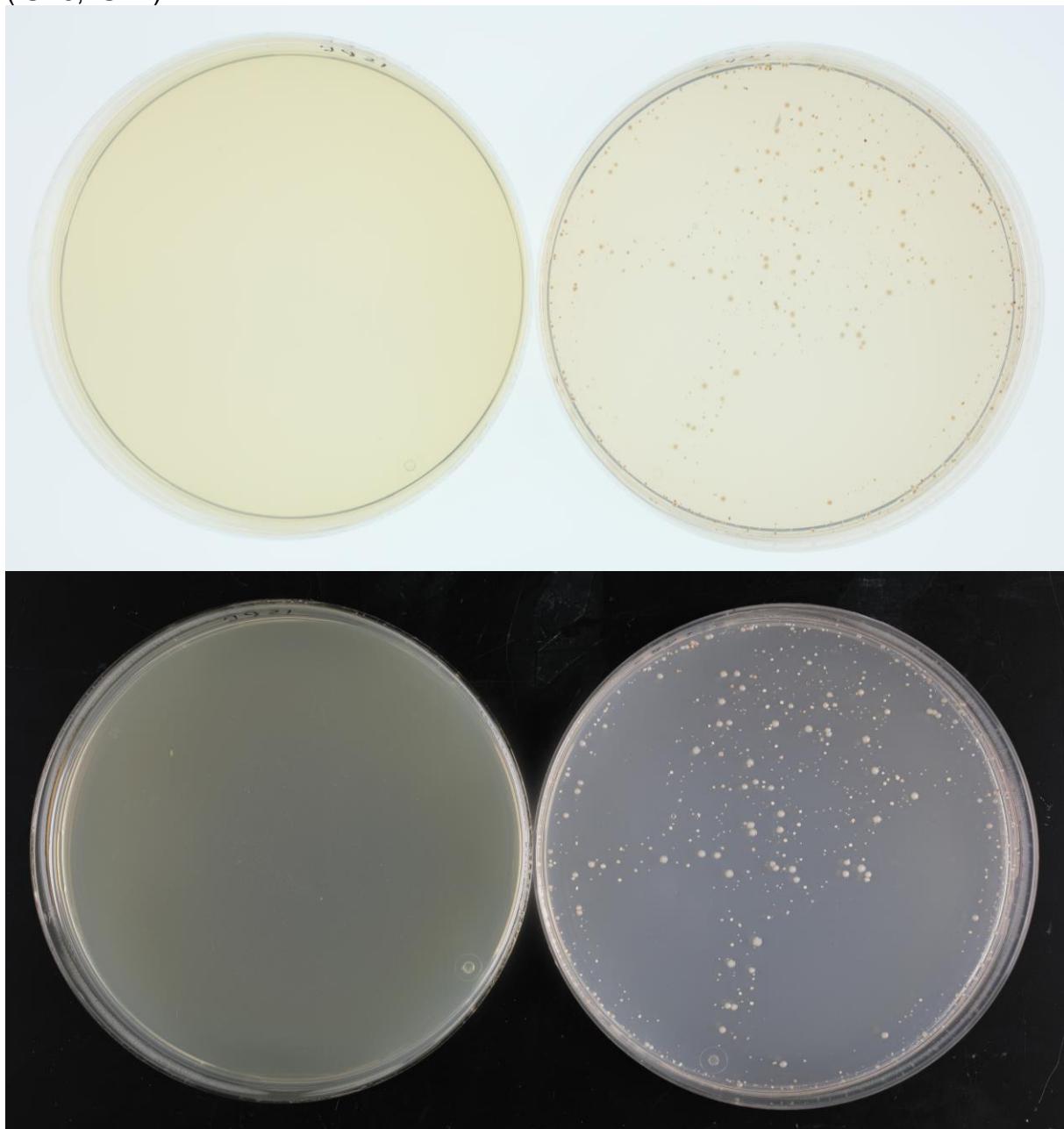


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

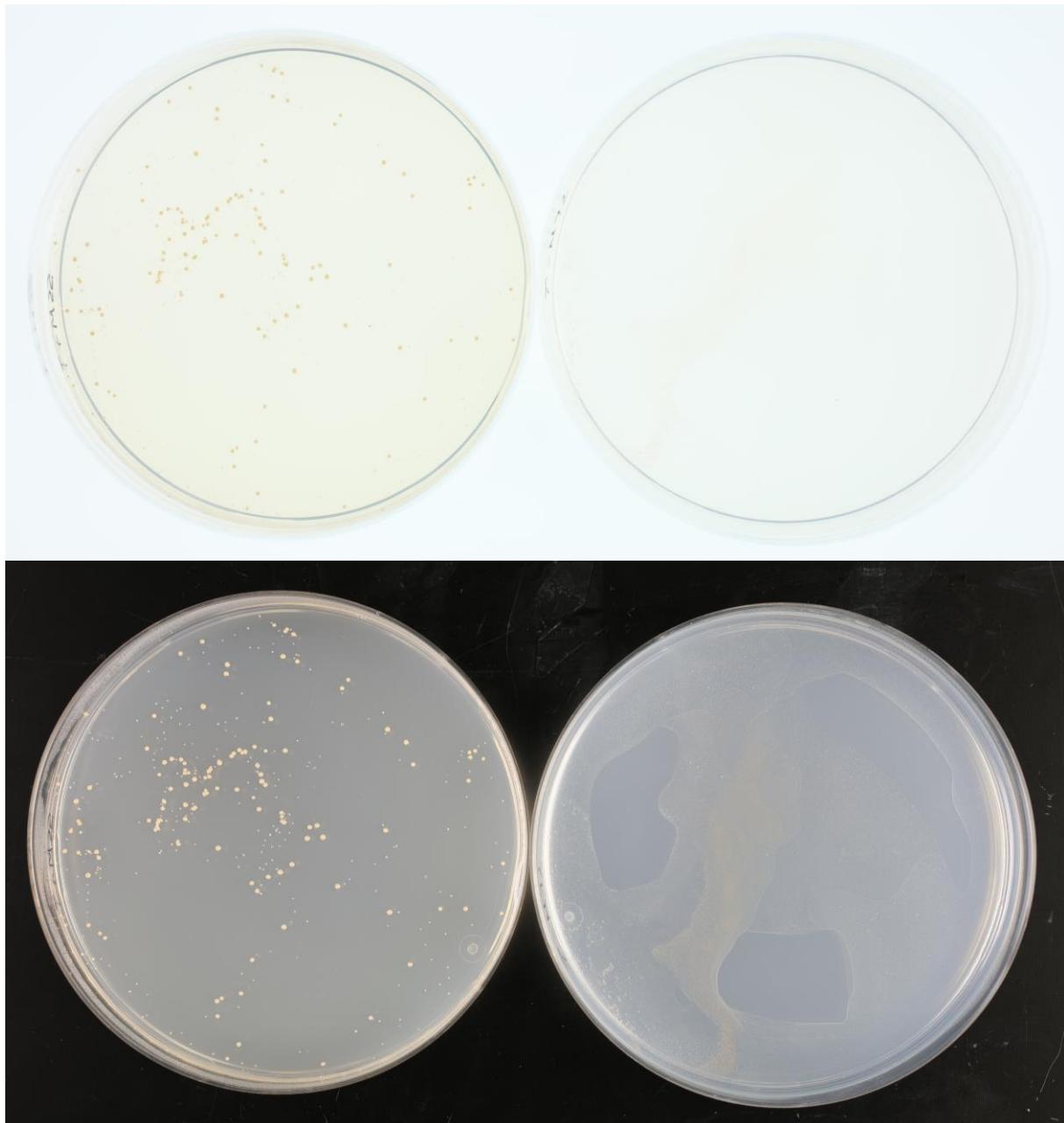
Plates (553, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)**

