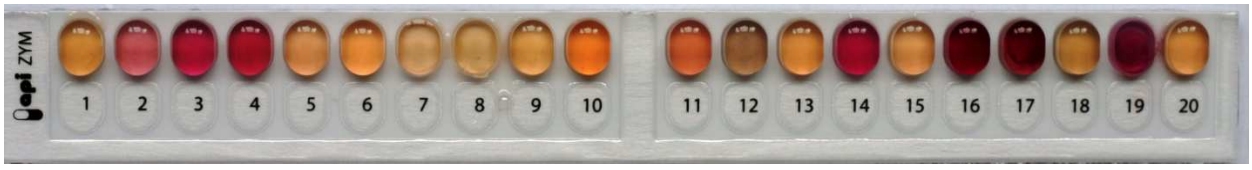
Strain		DSM 45571
Genus		***Planotetraspora***
Species		***phitsanulokensis***
Status		
Risk group		L1
Type strain		DSM 45571, BCC 26045, NBRC 104273
Reference		
Author		Suriyachadkun, C., Chunhametha, S., Thawai, C., Tamura, T., Potacharoen, W., Kirtikara, K., Sanglier, J. J., Kitpreechavanich, V.
Title		*Planotetraspora kaengkrachanensis* sp. nov. and *Planotetraspora phitsanulokensis* sp. nov., isolated from soil.
Journal		Int J Syst Evol Microbiol
Volume		60 (Pt 9)
Page		2076-2081
Year		2010
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	Sand yellow (1002)
Agar	ISP 3 - G	Decreased
Agar	ISP 3 - R	None
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Decreased
Agar	ISP 4 - R	Sand yellow (1002)
Agar	ISP 4 - A	None
Agar	ISP 4 - S	Sand yellow (1002)
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	Sand yellow (1002)
Agar	ISP 5 - A	Signal white (9003)
Agar	ISP 5 – S	None
Agar	ISP 6 - G	/
Agar	ISP 6 - R	/
Agar	ISP 6 - A	/
Agar	ISP 6 - S	/
Agar	ISP 7 - G	Decreased
Agar	ISP 7 - R	Ivory (1014)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Decreased

Agar	suter with tyrosine - R	Sand yellow (1002)
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	Ivory (1014)
Agar	suter without tyrosine - G	Decreased
Agar	suter without tyrosine - R	Ivory (1014)
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodim chloride tolerance		10%
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	0
Api zym	Esterase (C4)	1
Api zym	Esterase Lipase (C8)	4
Api zym	Lipase (C14)	4
Api zym	Leucin arylamidase	0
Api zym	Valine arylamidase	0
Api zym	Cystine arylamidase	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	2
Api zym	Phosphatase acid	0
Api zym	Naphtol-AS-BI-phosphohydrolase	2
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	4
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta GLUCOSIDASE	5
Api zym	N-acetyl-beta-glucoseamidase	1
Api zym	alpha mannosidase	5

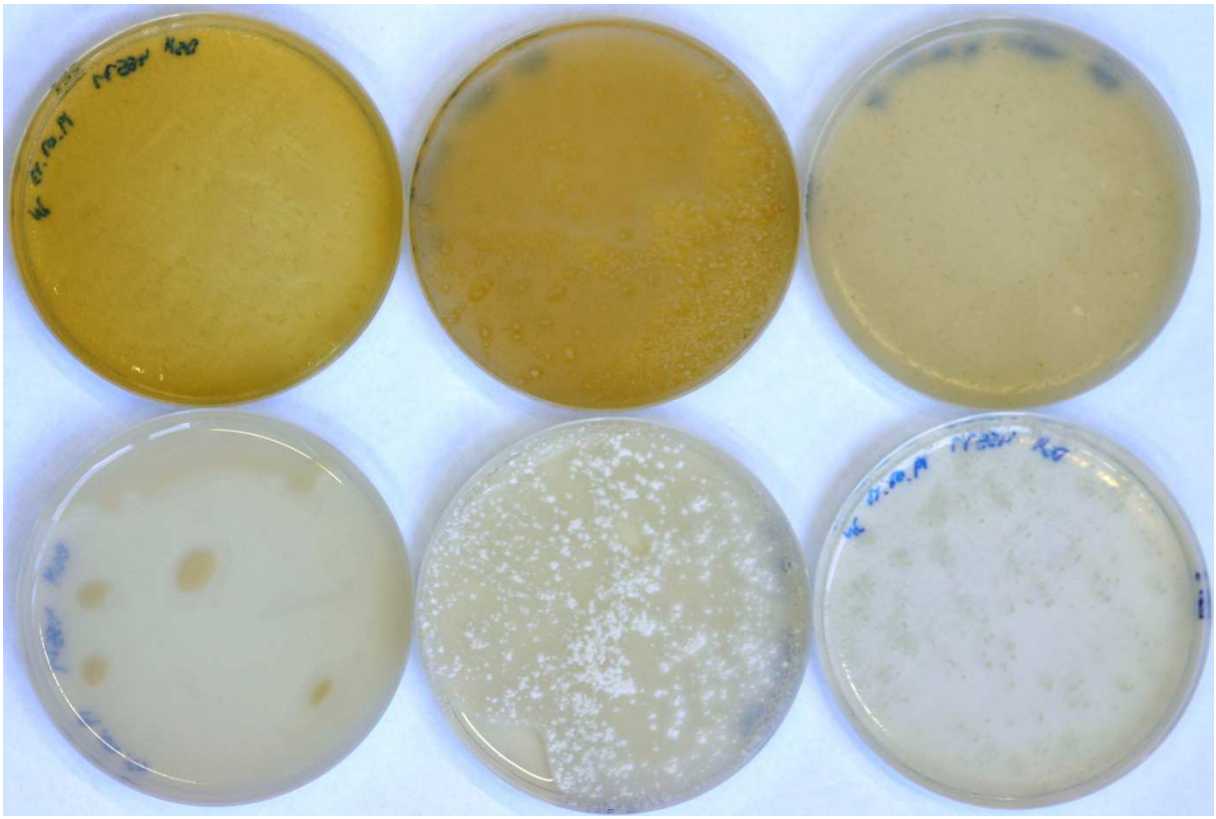
Api zym	alpha fucosidase	0
Api coryne	nitrate reduction	
Api coryne	Pyraziamidase	
Api coryne	Pyrrolidonyl arylamidase	-
Api coryne	Alkaline phosphatase	-
Api coryne	beta glucuronidase	-
Api coryne	beta galactosidase	-
Api coryne	alpha glucosidase	-
Api coryne	N-acetyl -beta glucoseamidase	-
Api coryne	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	-

Api coryne

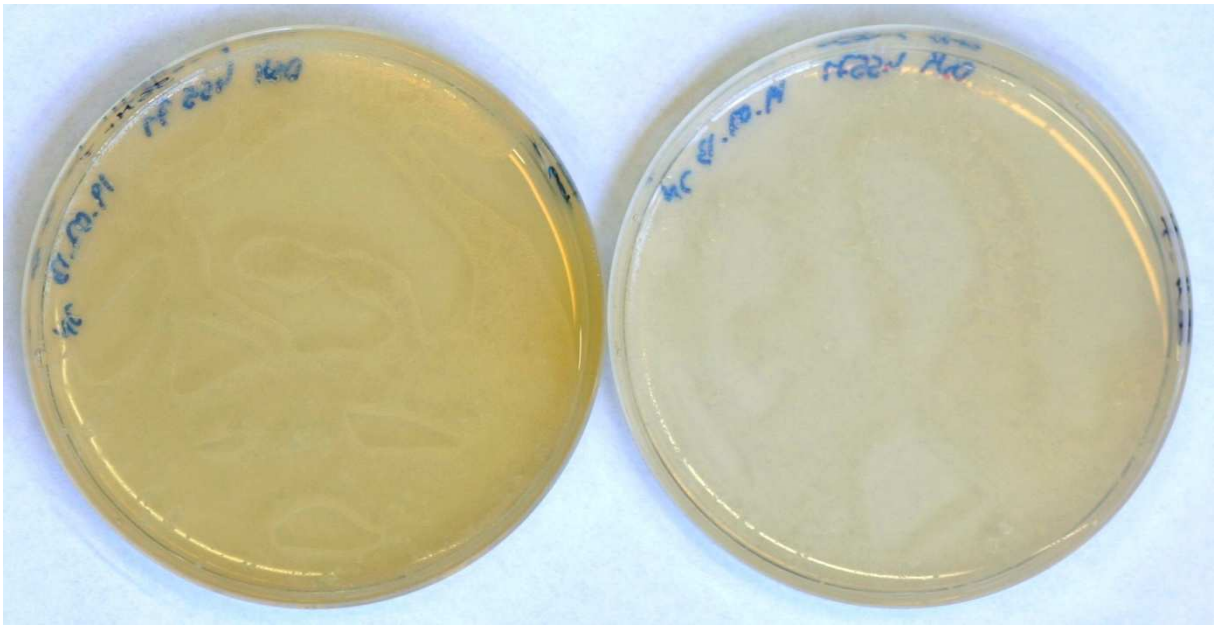
Apizym



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



(SSM+T, SSM-T)



Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose)