

<b>Strain</b>		DSM 21603
Genus		<i>Promicromonospora</i>
Species		<i>xylanilytica</i>
<b>Status</b>		
Risk group		L1
Type strain		YIM 61515, CCTCC AA 208046, JCM 19561
Genbank accession numbers		16S rRNA gene: <a href="#">FJ214352</a>
<b>Reference</b>		
Author		Qin, S., Jiang, J. H., Klenk, H. P., Zhu, W. Y., Zhao, G. Z., Zhao, L. X., Tang, S. K., Xu, L. H., Li, W. J.
Title		<i>Promicromonospora xylanilytica</i> sp. nov., an endophytic actinomycete isolated from surface-sterilized leaves of the medicinal plant <i>Maytenus austroyunnanensis</i>
Journal		Int J Syst Evol Microbiol
Volume		62 (Pt1)
Page		84-89
Year		2012
<b>Morphology</b>		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	1002 Sand yellow, 1015 Light ivory
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1015 Light ivory
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	8011 Nut brown, 8007 Fawn brown, 1002 Sand yellow
Agar	ISP 4 - A	None
Agar	ISP 4 - S	1002 Sand yellow
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1014 Ivory
Agar	ISP 5 - A	None
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

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Agar	ISP 7 - G	Good
Agar	ISP 7 - R	1002 Sand yellow, 1014 Ivory
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	1015 Light ivory
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1002 Sand yellow, 8003 Clay brown
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	1002 Sand yellow, 8001 Ochre brown
	Sporechains/Sporangia	
<b>Physiology</b>		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		7,5%
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 alkaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	2
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	3
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	2
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	5

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Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	4
Api zym	N-acetyl-beta-glucoseamidase	4
Api zym	alpha mannosidase	4
Api zym	alpha fucosidase	0
Api coryne	nitrate reduction	-
Api coryne	Pyrazinamidase	+
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	(+)
<b>Metabolites</b>		
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

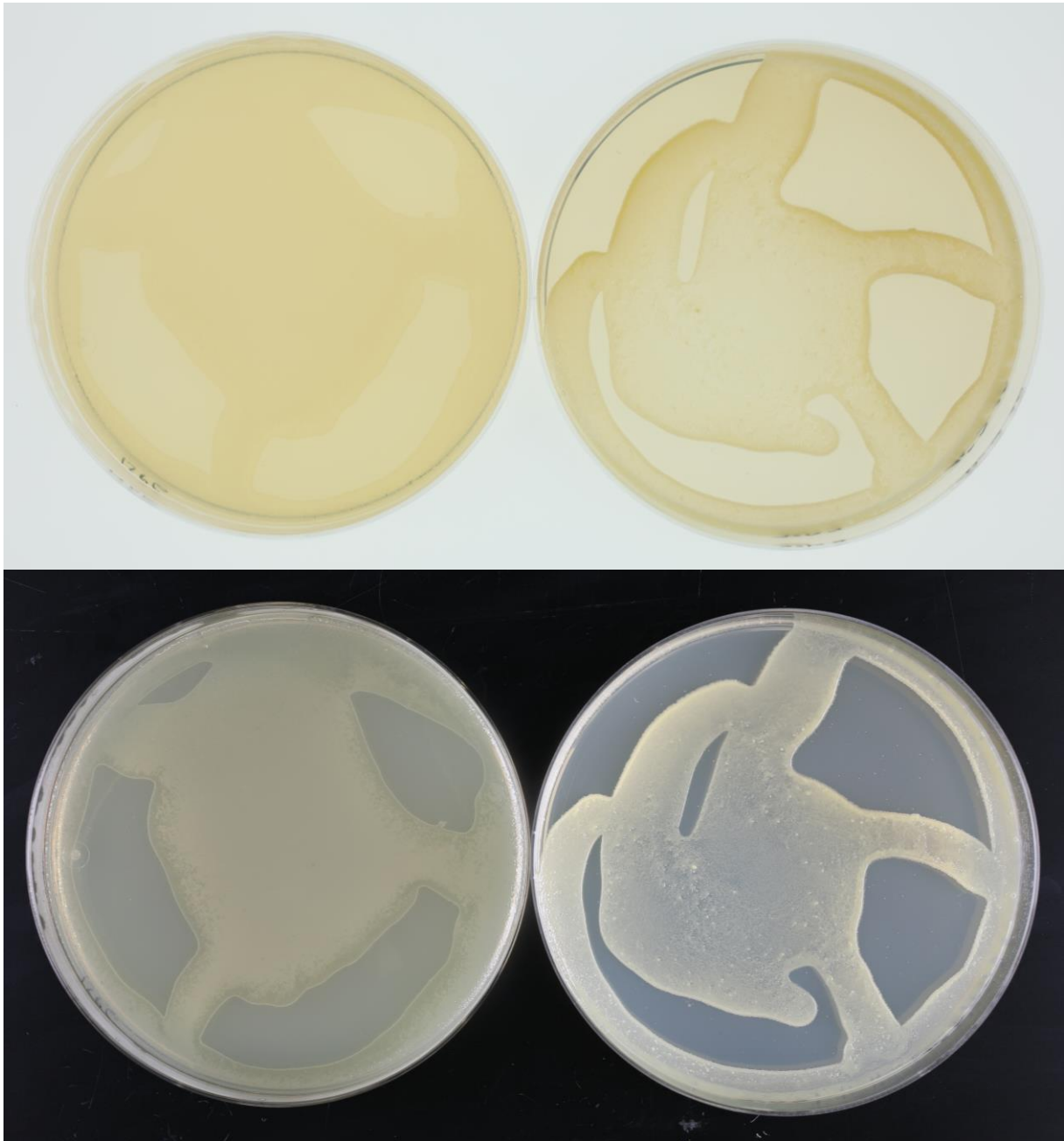


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

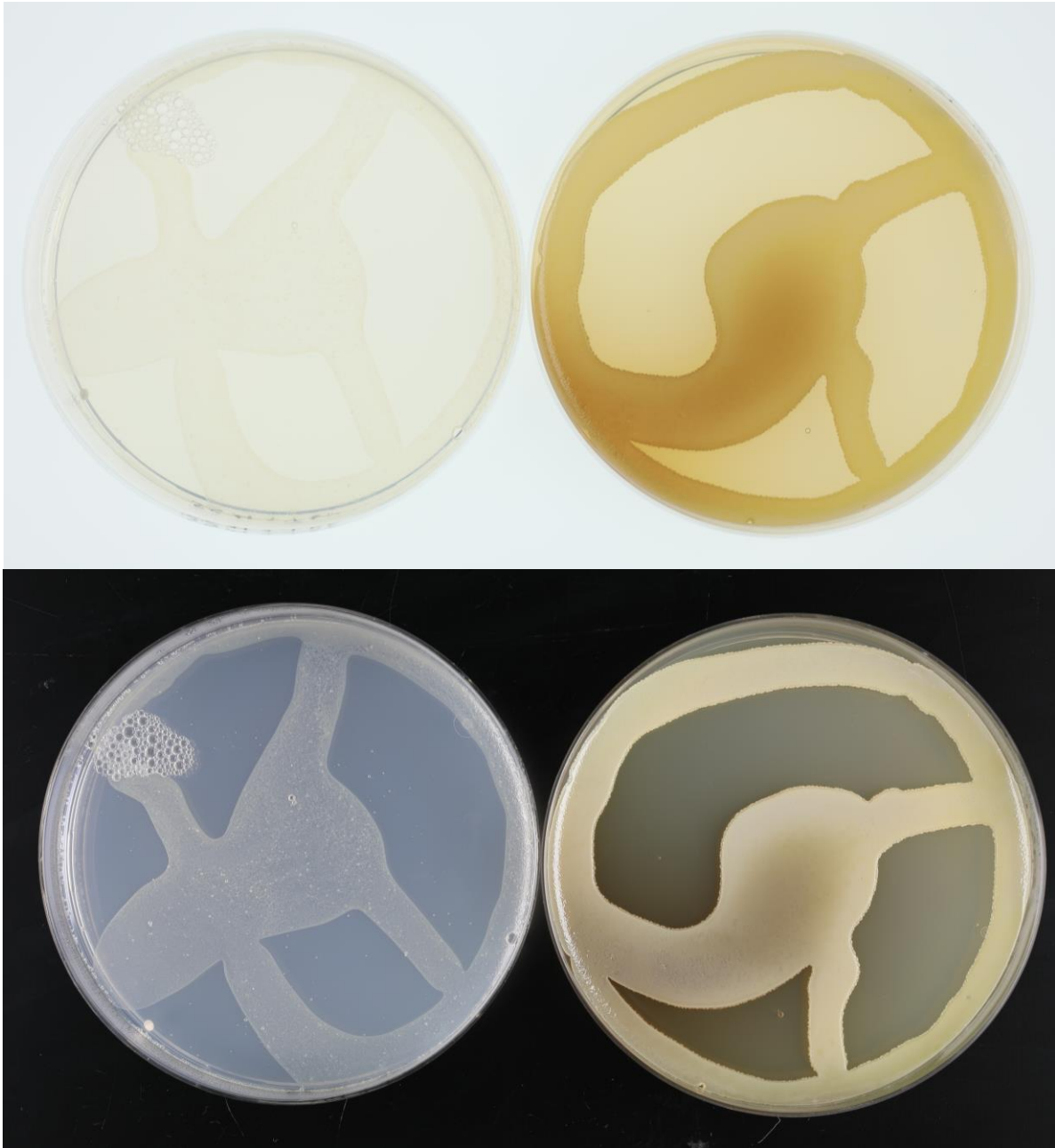
**Plates (535, ISP2, ISP3, ISP4, ISP5, ISP7)**



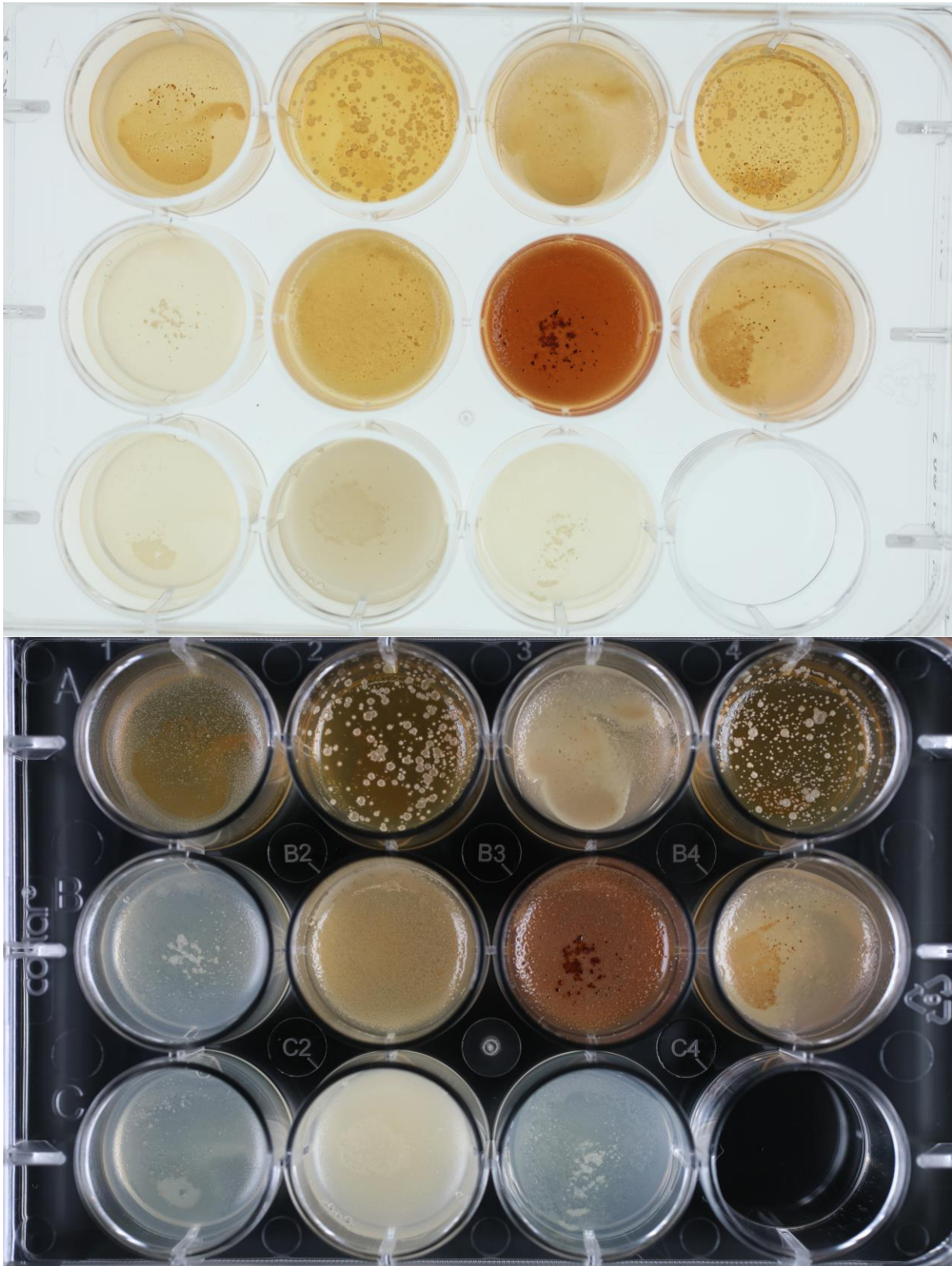
(ISP6, ISP7)



(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%)**

