

Compendium of Actinobacteria from Dr. Joachim M. Wink
University of Braunschweig

Strain		DSM 45572
Genus		<i>Actinoplanes</i>
Species		<i>tereljensis</i>
Status		
Risk group		L1
Type strain		DSM 45572, MN07-A0371, VTCC D9-10, NBRC 105297
Reference		
Author		Ara, I., Yamamura, H., Tsetseg, B., Daram, D., Ando, K.
Title		<i>Actinoplanes toevensis</i> sp. nov. and <i>Actinoplanes tereljensis</i> sp. nov., isolated from Mongolian soil.
Journal		Int J Syst Evol Microbiol
Volume		60 (Pt 4)
Page		919-927
Year		2010
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Deep orange (2011)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	Deep orange (2011)
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Decreased
Agar	ISP 4 - R	Orange brown (8023)
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Decreased-good
Agar	ISP 5 - R	Ocher brown
Agar	ISP 5 - A	None
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	Good
Agar	ISP 7 - R	Orange brown (8023)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	Brown beige
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Clay brown
Agar	suter with tyrosine - A	None

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Agar	suter with tyrosine - S	Clay brown
Agar	suter without tyrosine - G	Decreased-good
Agar	suter without tyrosine - R	ocher brown
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		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 alkaline	3
Api zym	Esterase (C4)	0
Api zym	Esterase Lipase (C8)	0
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	1
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	0
Api zym	Trypsin	3
Api zym	Chymotrypsin	2
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta GLUCOSIDASE	5
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	0
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	-

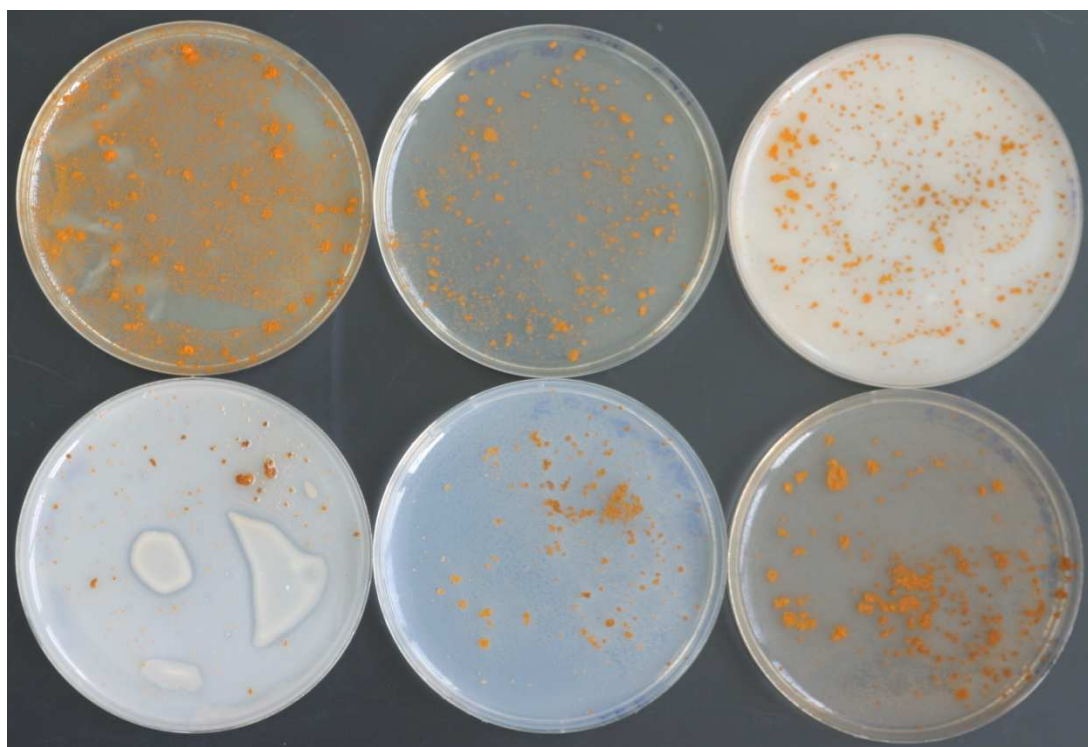
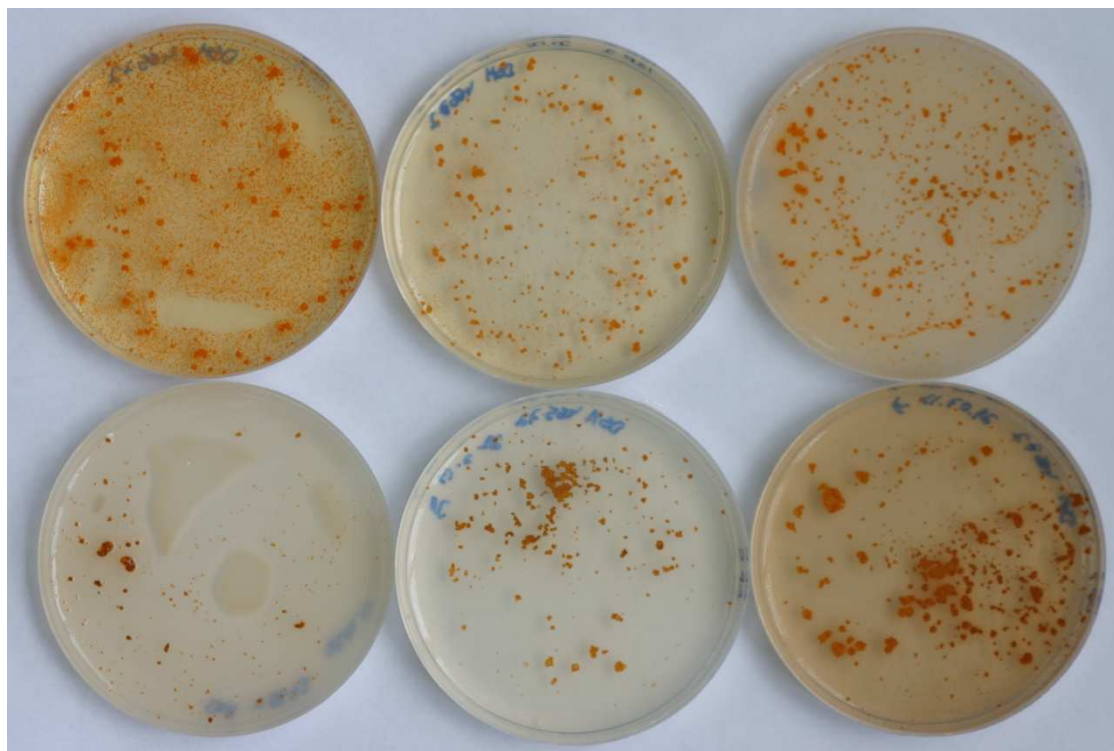
Apicoryne



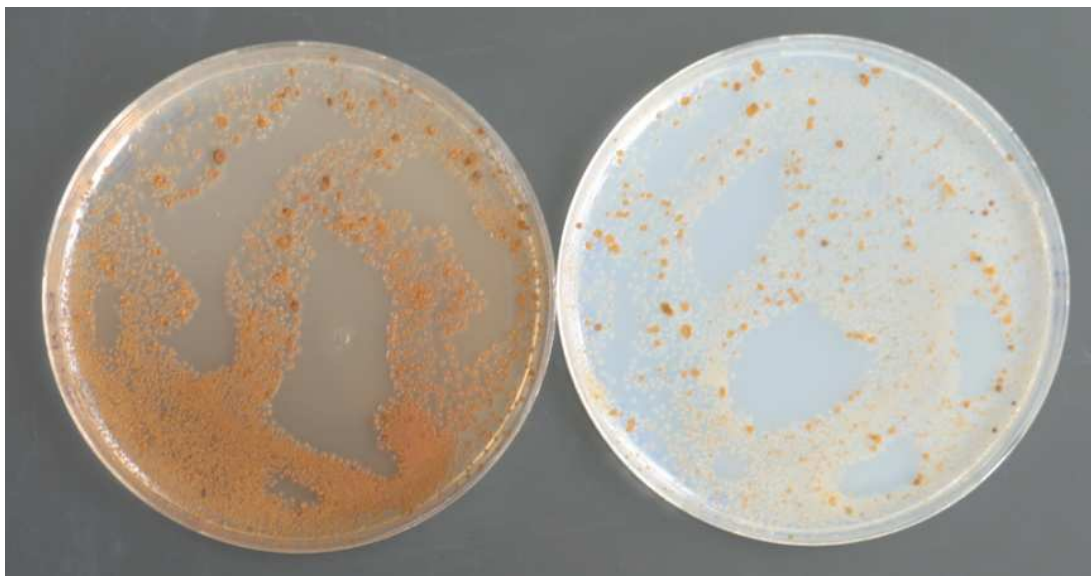
Apizym



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)



Sodium chloride tolerance test (from top left to bottom right: 0%, 5%, 2,5%, 10%, 7,5%)

