

Strain		DSM 45809
Genus		<i>Actinoplanes</i>
Species		<i>octamycinicus</i>
Status		
Risk group		L1
Type strain		ATCC 43632, INA 4041, JCM 9649, KCTC 9593, NBRC 14524
Genbank accession number		16S rRNA gene: AB047494
Reference		
Author		Tamura, T., Ishida, Y., Suzuki, K. I.
Title		Descriptions of <i>Actinoplanes ianthinogenes</i> nom. rev. and <i>Actinoplanes octamycinicus</i> corrig. comb. nov., nom. rev.
Journal		Int J Syst Evol Microbiol
Volume		61 (12)
Page		2916-2921
Year		2011
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	8017 Chocolate brown, 8015 Chestnut brown, 8024 Beige brown
Agar	ISP 2 - aerial mycelium/A	Sparse, 7012 Basalt grey, 7016 Anthracite grey
Agar	ISP 2 - soluble pigment/S	1011 Brown beige
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	8001 Ochre brown, 1034 Pastel yellow, 8017 Chocolate brown, 8015 Chestnut brown
Agar	ISP 3 - A	None
Agar	ISP 3 - S	1012 Lemon yellow, 3004 Purple red
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	8001 Ochre brown, 8014 Sepia brown, 1017 Saffron yellow, 1012 Lemon yellow
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	8017 Chocolate brown, 8015 Chesnut brown
Agar	ISP 5 - A	Good, 7045 Telegrey 1, 7012 Basalt grey
Agar	ISP 5 - S	8025 Pale brown
Agar	ISP 6 - G	Sparse

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

Agar	ISP 6 - R	7008 Khaki grey, 8017 Chocolate brown
Agar	ISP 6 - A	None
Agar	ISP 6 - S	1024 Ochre yellow
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	8019 Grey brown, 8015 Chesnut brown
Agar	ISP 7 - A	Sparse, 3007 Black red
Agar	ISP 7 - S	8001 Ochre brown
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	8019 Grey brown, 9004 Signal black, 8011 Nut brown
Agar	suter with tyrosine - A	Sparse, 7005 Mouse grey
Agar	suter with tyrosine - S	3009 Oxide red
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	8017 Chocolate brown, 8002 Signal brown
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium 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 alkaline	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	5
Api zym	Cystine arylamidase	2

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

Api zym	Trypsin	4
Api zym	Chymotrypsin	3
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	3
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	3
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 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

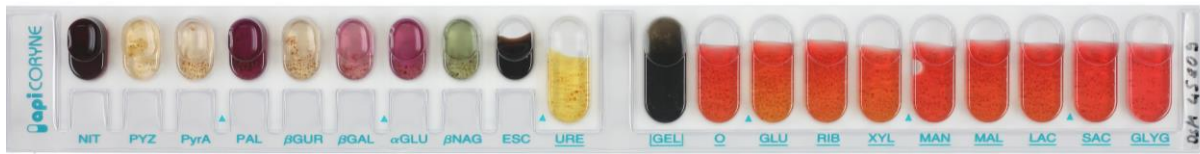


Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

Apizym

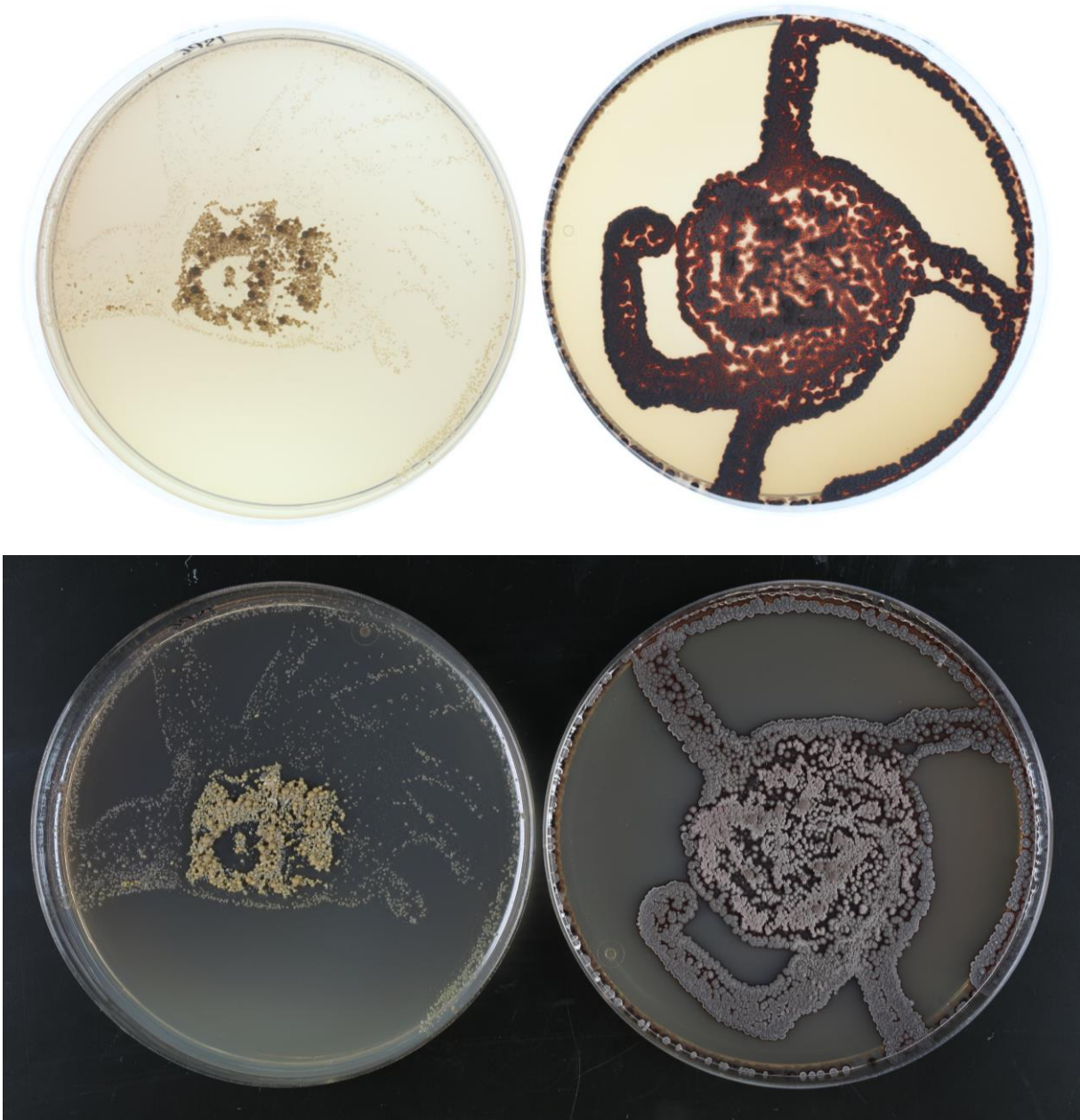


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



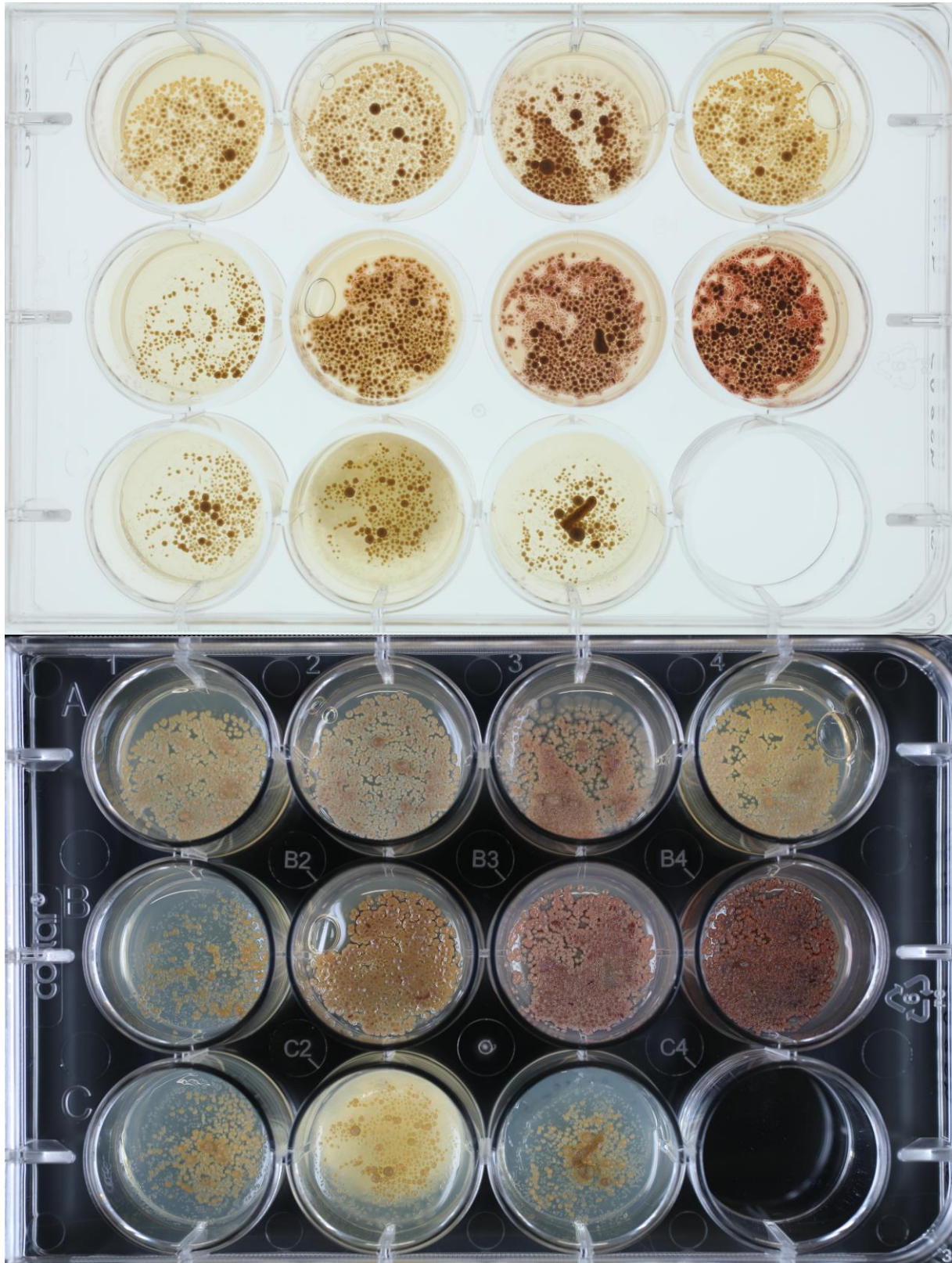
(ISP6, ISP7)



(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%)

