

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

Strain		DSM 17684
Genus		<i>Nocardia</i>
Species		<i>Jiangxiensis</i>
Status		
Risk group		1 (classification according to German TRBA)
Type strain		AS 4.1905, CGMCC 4.1905, IFM 10633, JCM 12861
Reference		Int. J. Syst. Evol. Microbiol. 55:1924
Author		Cui, Q., Wang, L., Huang, Y., Liu, Z., Goodfellow, M.
Title		<i>Nocardia jiangxiensis</i> sp. nov. and <i>Nocardia miyunensis</i> sp. nov., isolated from acidic soils
Journal		<i>Int.J.Syst.Evol.Microbiol.</i>
Volume		55
Page		1921-1925
Year		2005
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	beige red (3012)
Agar	ISP 2 - aerial mycelium/A	light ivory (1015)
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	sparse
Agar	ISP 3 - R	colourless
Agar	ISP 3 - A	pure white (9010)
Agar	ISP 3 - S	none
Agar	ISP 4 - G	sparse
Agar	ISP 4 - R	beige red (3012)
Agar	ISP 4 - A	pure white (9010)
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	beige red (3012)
Agar	ISP 5 - A	cream (9001)
Agar	ISP 5 - S	none
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	beige red (3012)
Agar	ISP 6 - A	cream (9001)
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	beige red (3012)
Agar	ISP 7 - A	pure white (9010)
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	pastell yellow (1034)
Agar	suter with tyrosine - A	none

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

Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	pastel yellow (1034)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		----
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodium chloride tolerance		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	0
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	2
Api zym	Valine arylamidase	0
Api zym	Cystine arylamidase	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	1
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
Api zym	beta GLUCOSIDASE	2
Api zym	N-acetyl-beta-glucoseamidase	0
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	-
Metabolites		

Apicoryne

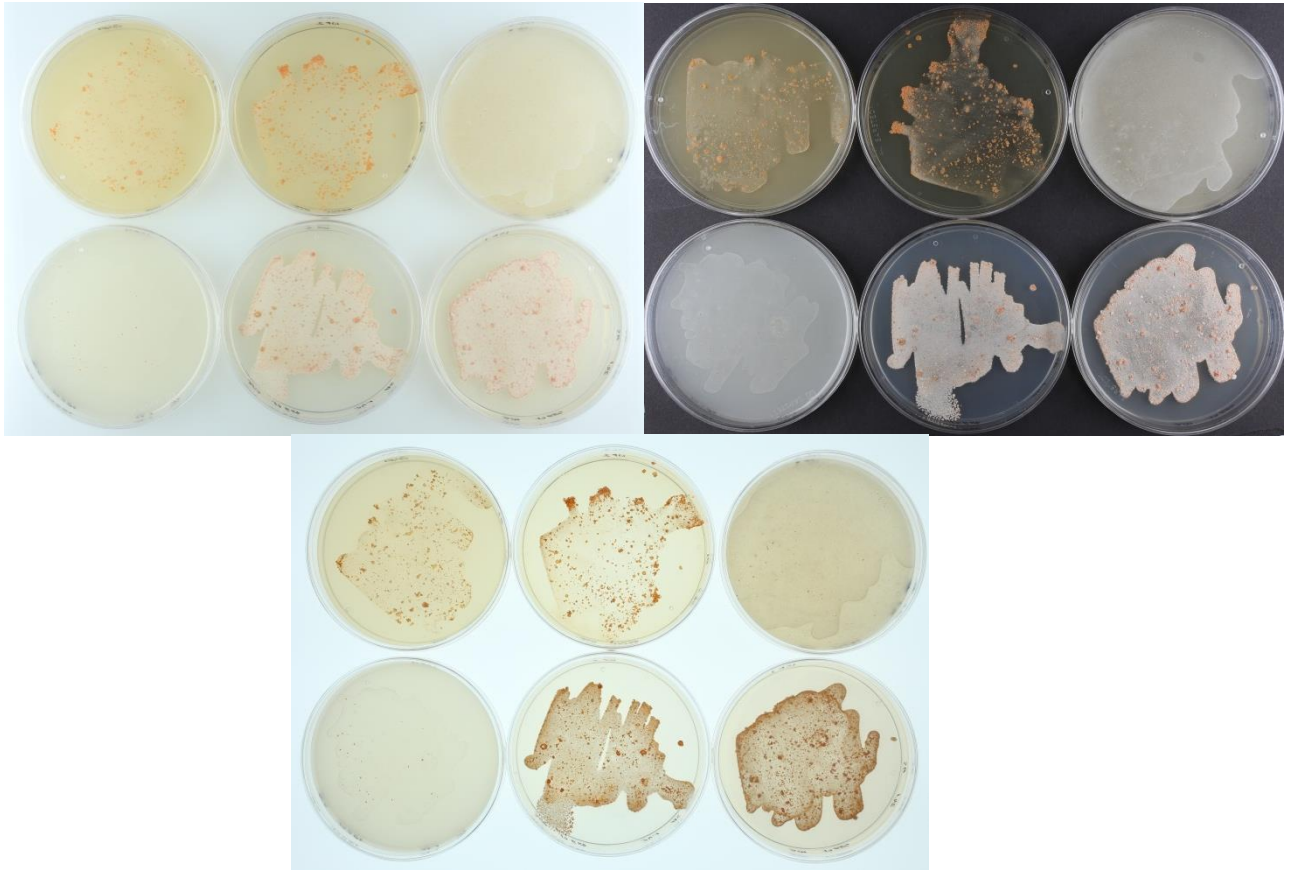


Abbildung 1: Apicoryne-Teststreifen mit Keim DSM .

Apizym



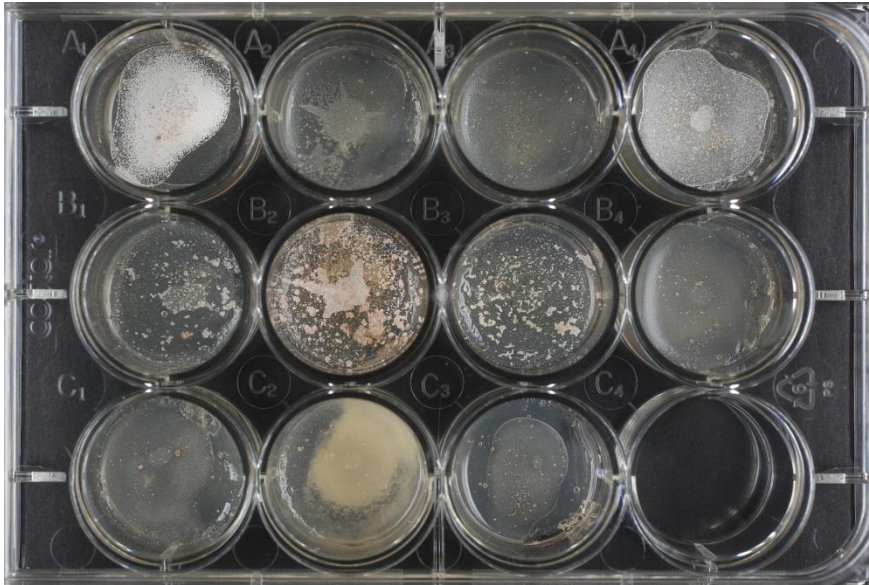
Abbildung 2: Apizym-Teststreifen mit Keim DSM .



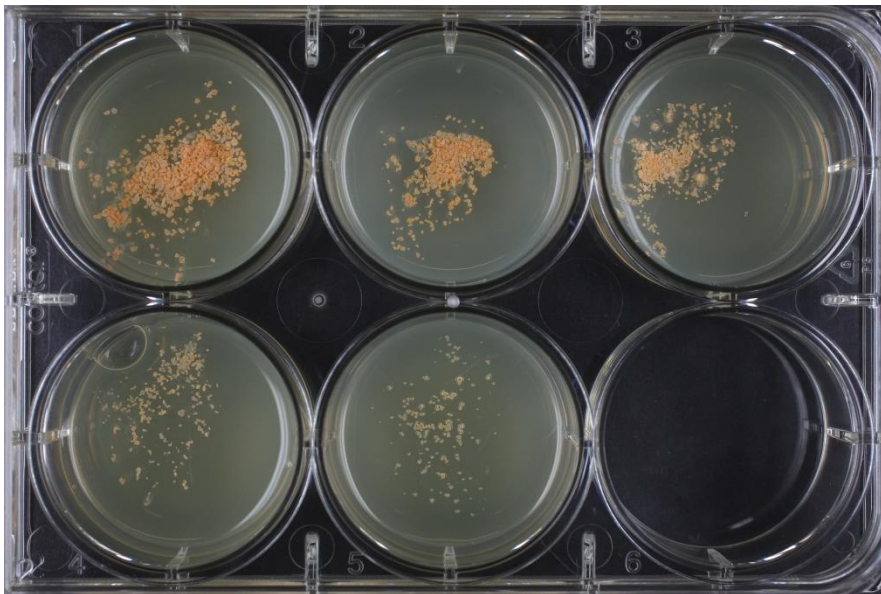
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)