

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

Strain		DSM 45278
Genus		<i>Nocardiopsis</i>
Species		<i>arvandica</i>
Status		
Risk group		L1
Type strain		HM 7, CCUG 58831, UTM 00103
Reference		
Author		Hamed, J., Mohammadipanah, F., Pötter, G., Spröer, C., Schumann, P., Göker, M., Klenk, H. P.
Title		<i>Nocardiopsis arvandica</i> sp. nov., isolated from sandy soil.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 (Pt 5)
Page		1189-1194
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	ivory (1014)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	honey yellow (1005)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	light ivory (1015)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	light ivory (1015)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	light ivory (1015)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	good
Agar	ISP 6 - R	n. d.
Agar	ISP 6 - A	oyster white (1013), sparse
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	ivory (1014)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	beige (1001)
Agar	suter with tyrosine - A	ivory (1014)
Agar	suter with tyrosine - S	ocher brown (8001)
Agar	suter without tyrosine - G	good

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Agar	suter without tyrosine - R	ivory (1014)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	light ivory (1015)
	Sporechains/Sporangia	
Physiology		
Melanin		+
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		10% (optimum: 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)	3
Api zym	Lipase (C14)	3
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	3
Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	4
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4
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	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



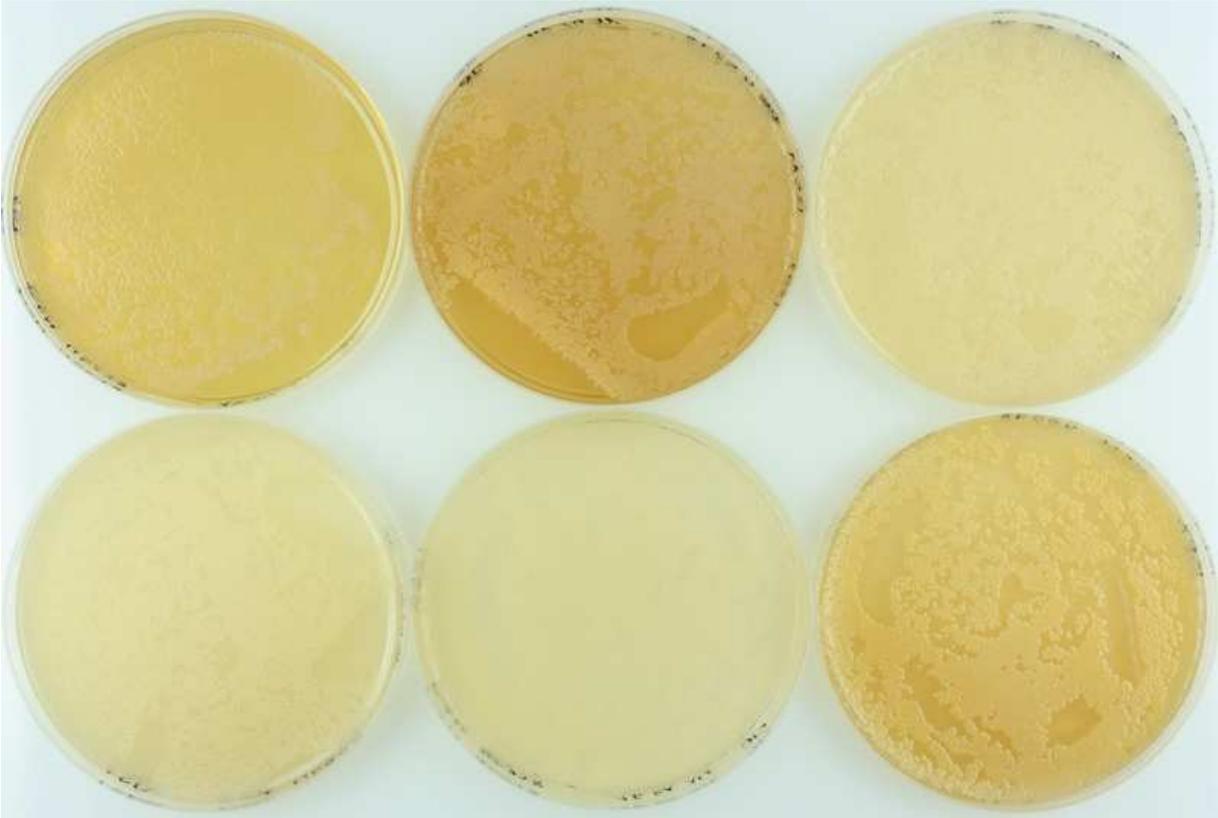
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 45278.

Apizym



Abbildung 2: Apizym-Teststreifen mit Keim DSM 45278.

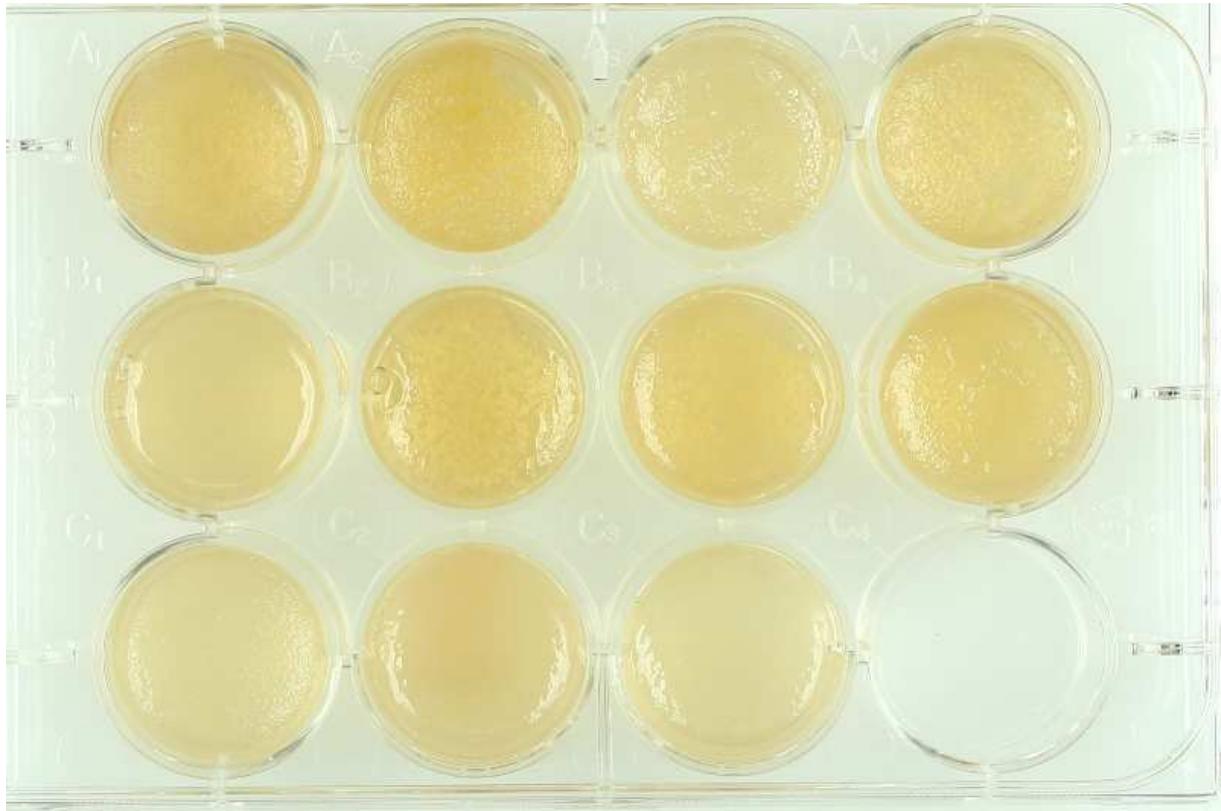
Plates (553, ISP2, ISP3, ISP4, ISP5, ISP7)



(ISP6, 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%)**

