

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

Strain		DSM 45352
Genus		<i>Pseudonocardia</i>
Species		<i>adelaidensis</i>
Status		
Risk group		L1
Type strain		ACM 5286, JCM 18302
Reference		
Author		Kaewkla, O., Franco, C. M.
Title		<i>Pseudonocardia adelaidensis</i> sp. nov., an endophytic actinobacterium isolated from the surface-sterilized stem of a grey box tree (<i>Eucalyptus microcarpa</i>).
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		60 (Pt 12): 2818-2822
Page		2818-2822
Year		2010
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	Sand yellow (1002)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	Ivory (1014)
Agar	ISP 3 - A	Oyster white
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	Ivory (1014)
Agar	ISP 4 - A	Light ivory (1015)
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	Sand yellow (1002)
Agar	ISP 5 - A	None
Agar	ISP 5 - S	Ivory (1014)
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	Ivory (1015)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Decreased
Agar	suter with tyrosine - R	Brown beige (1011)
Agar	suter with tyrosine - A	None

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Agar	suter with tyrosine - S	Ivory (1014)
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	Sand yellow (1002)
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)	4
Api zym	Esterase Lipase (C8)	4
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	2
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	4
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	1
Api zym	beta GLUCOSIDASE	5
Api zym	N-acetyl-beta-glucoseamidase	3
Api zym	alpha mannosidase	3
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	-

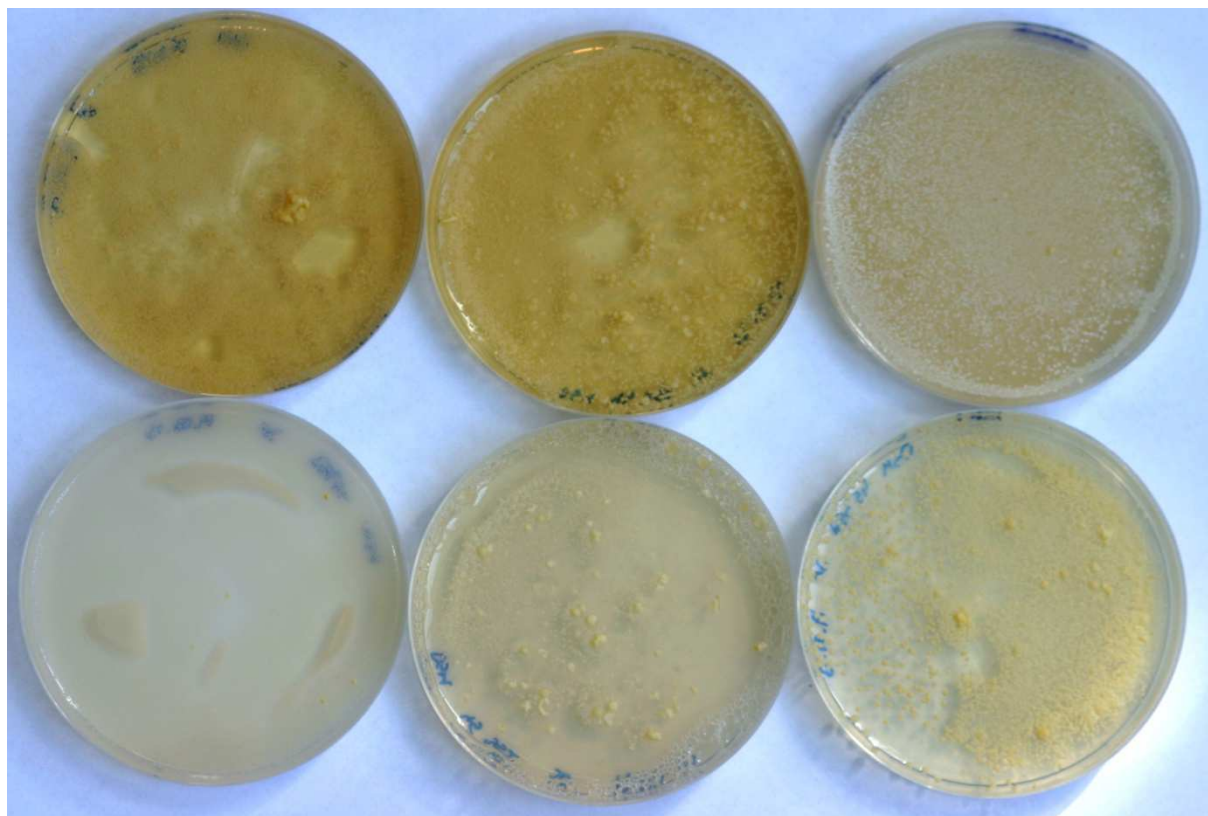
Api coryne



Api zym



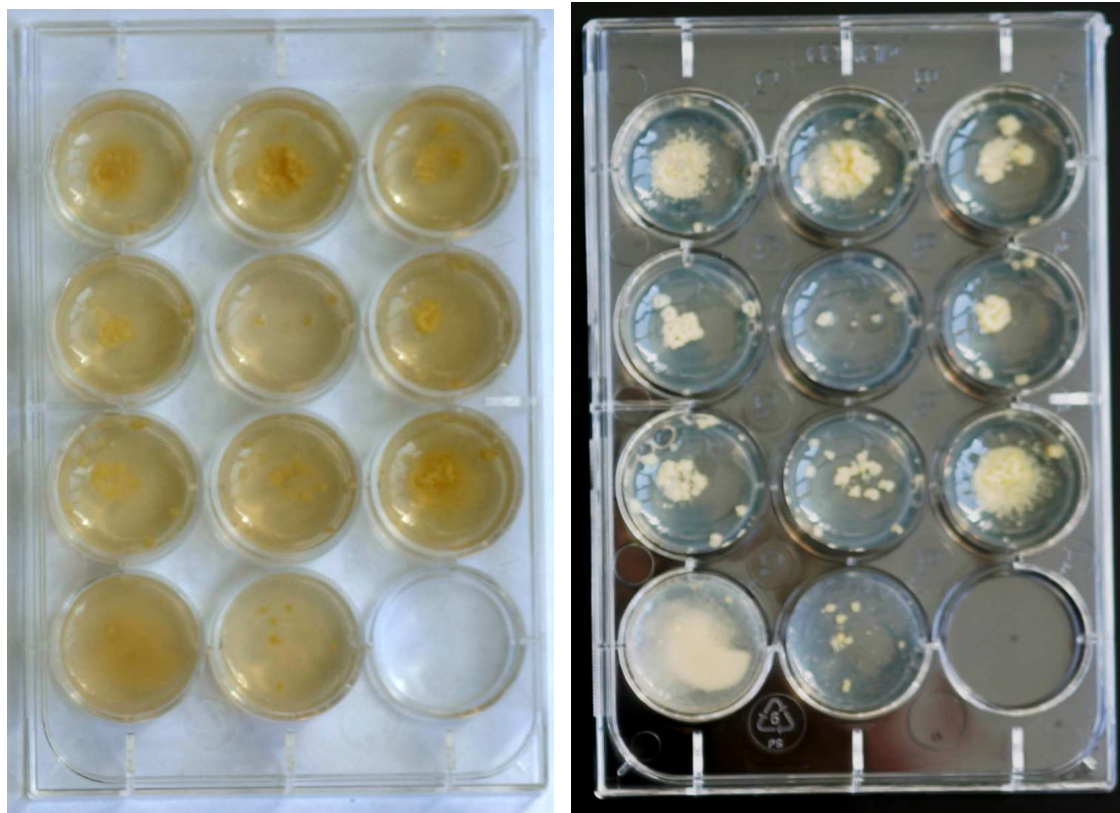
Plates (DSM 553, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%, 2,5%, 5%, 7,5%, 10%)

