

Strain		DSM 45351
Genus		<i>Pseudonocardia</i>
Species		<i>eucalypti</i>
Status		
Risk group		L1
Type strain		ACM 5285, EUM 374, JCM 18303
Reference		
Author		Kaewkla, O., Franco, C. M.
Title		<i>Pseudonocardia eucalypti</i> sp. nov., an endophytic actinobacterium with a unique knobby spore surface, isolated from roots of a native Australian eucalyptus tree.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 (Pt 4)
Page		742-746
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	golden yellow (1004)
Agar	ISP 2 - aerial mycelium/A	pure white (9010)
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	ivory (1014)
Agar	ISP 3 - A	pure white (9010)
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	light ivory (1015)
Agar	ISP 4 - A	pure white (9010)
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	ivory (1014)
Agar	ISP 5 - A	pure white (9010)
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	golden yellow (1004)
Agar	ISP 7 - A	oyster white (1013)
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	brown beige (1011)
Agar	suter with tyrosine - A	cream (9001)
Agar	suter with tyrosine - S	light ivory (1015)

Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	brown beige (1011)
Agar	suter without tyrosine - A	pure white (9010)
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodium 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 alcaline	3
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	4
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	1
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	2
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	4
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	0
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	-

Apicoryne



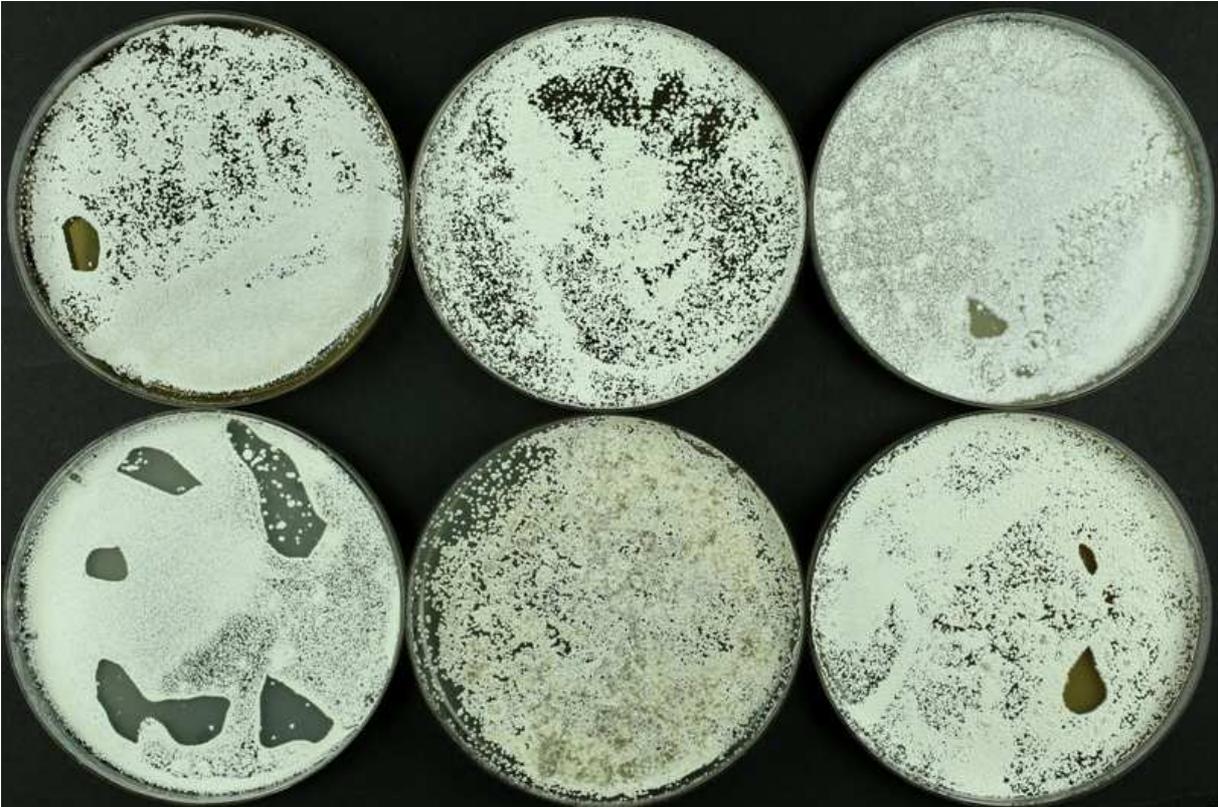
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 45351.

Apizym



Abbildung 2: Apizym-Teststreifen mit Keim DSM 45351.

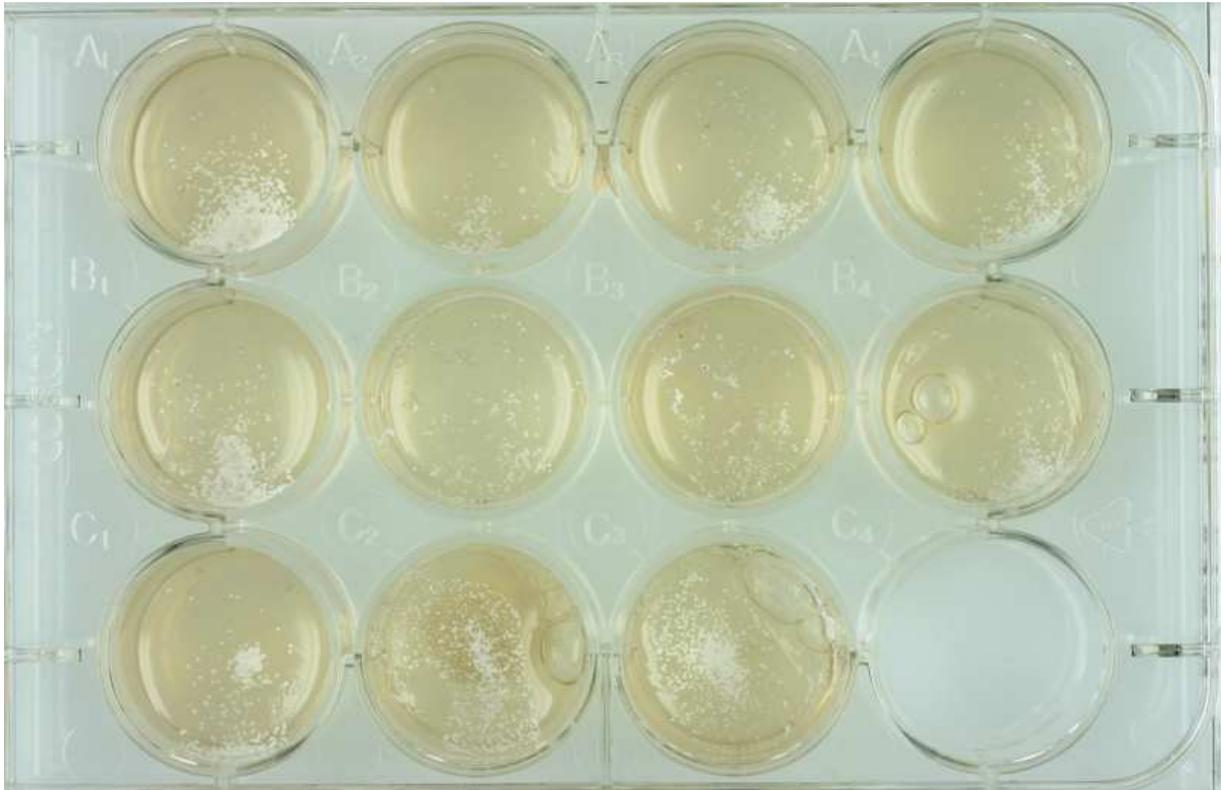
Plates (553, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)**

