

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

Strain		DSM 46662
Genus		<b><i>Rhodococcus</i></b>
Species		<b><i>solii</i></b>
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		DSD51W, KACC 17838, JCM 19627, KCTC 29259
Genbank accession numbers		16S rRNA gene: <a href="#">KJ939314</a>
Reference		
Author		Li, S. H., Yu, X. Y., Park, D. J., Hozzein, W. N., Kim, C. J., Shu, W. S., Wadaan, M. A., Ding, L. X., Li, W. J.
Title		<i>Rhodococcus solii</i> sp. nov., an actinobacterium isolated from soil using a resuscitative technique
Journal		<i>Antonie Van Leeuwenhoek</i>
Volume		<b>107</b> (2)
Page		357-66
Year		2015
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	none
Agar	ISP 3 - G	sparse
Agar	ISP 3 - R	colourless
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	sparse
Agar	ISP 4 - R	colourless
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	sparse
Agar	ISP 5 - R	colourless
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	good
Agar	ISP 6 - R	sand yellow (1002)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	sparse
Agar	ISP 7 - R	colourless
Agar	ISP 7 - A	none

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Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	colourless
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	colourless
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		2,5%
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	2
Api zym	Esterase (C4)	0
Api zym	Esterase Lipase (C8)	0
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	5
Api zym	Cystine arylamidase	2
Api zym	Trypsin	1
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	3
Api zym	beta glucosidase	5

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	-

## Apicoryne



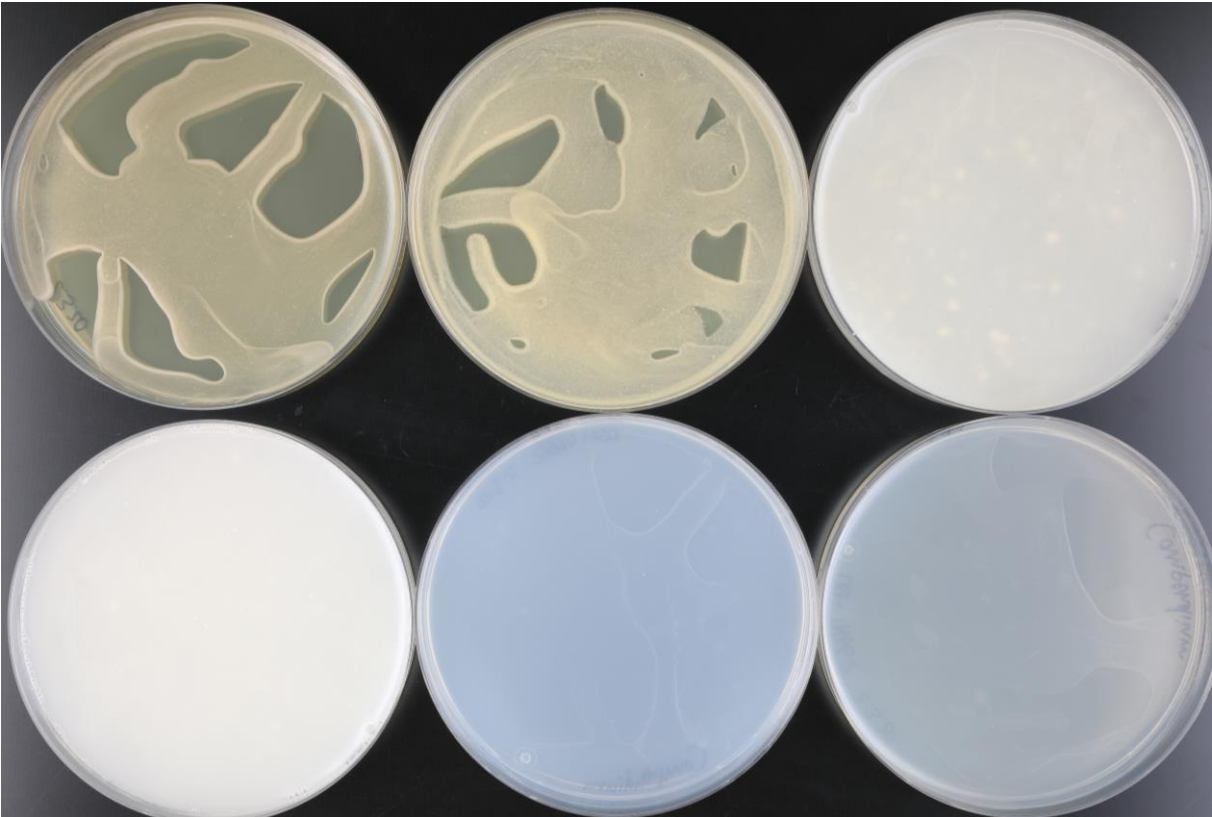
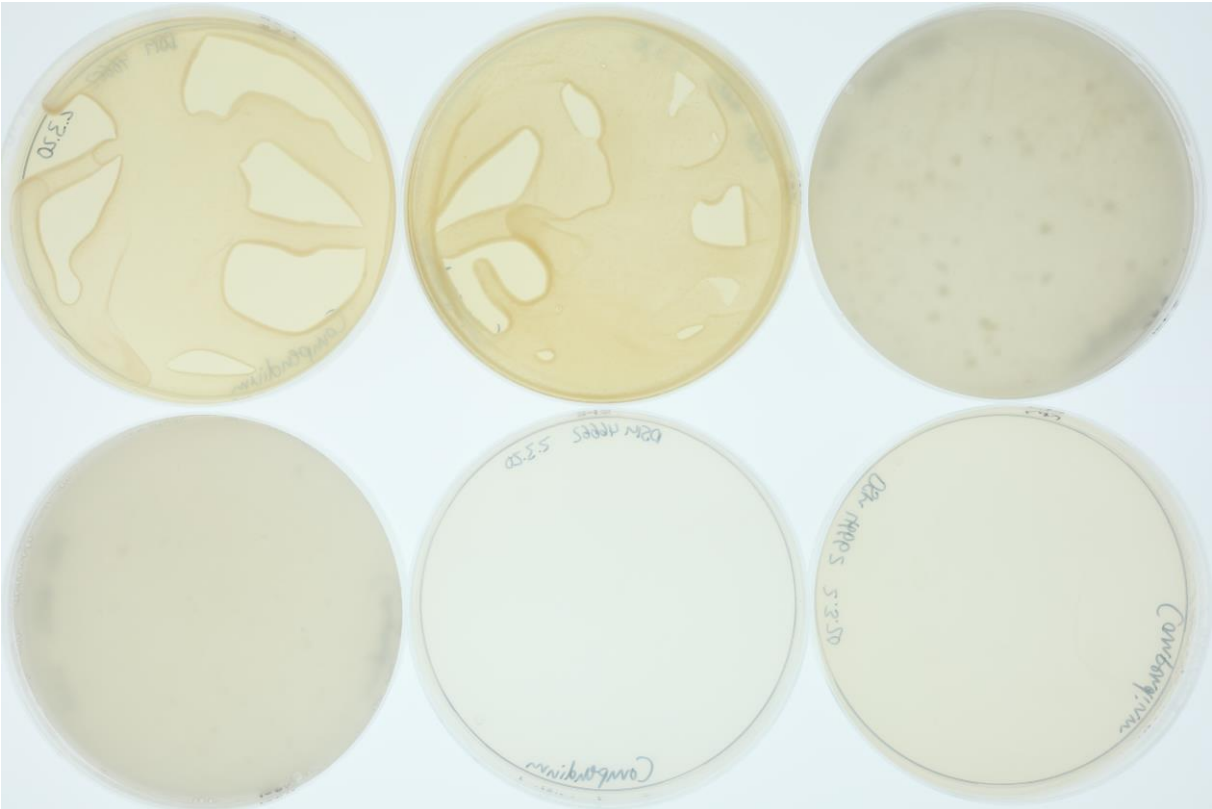
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 46662.

## Apizym

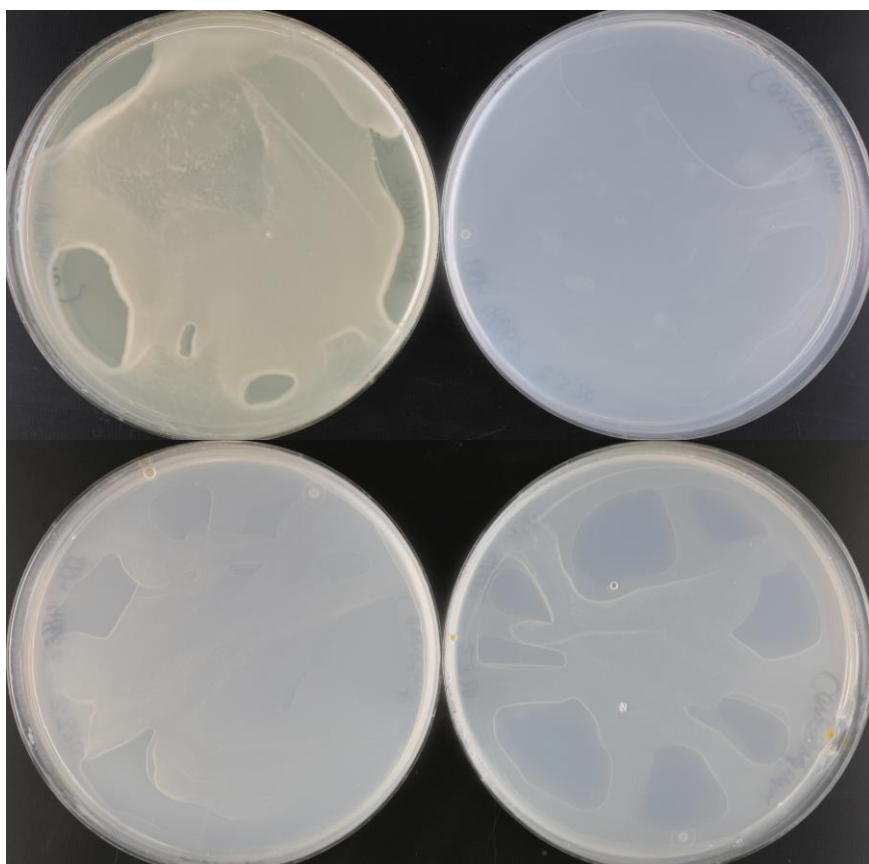
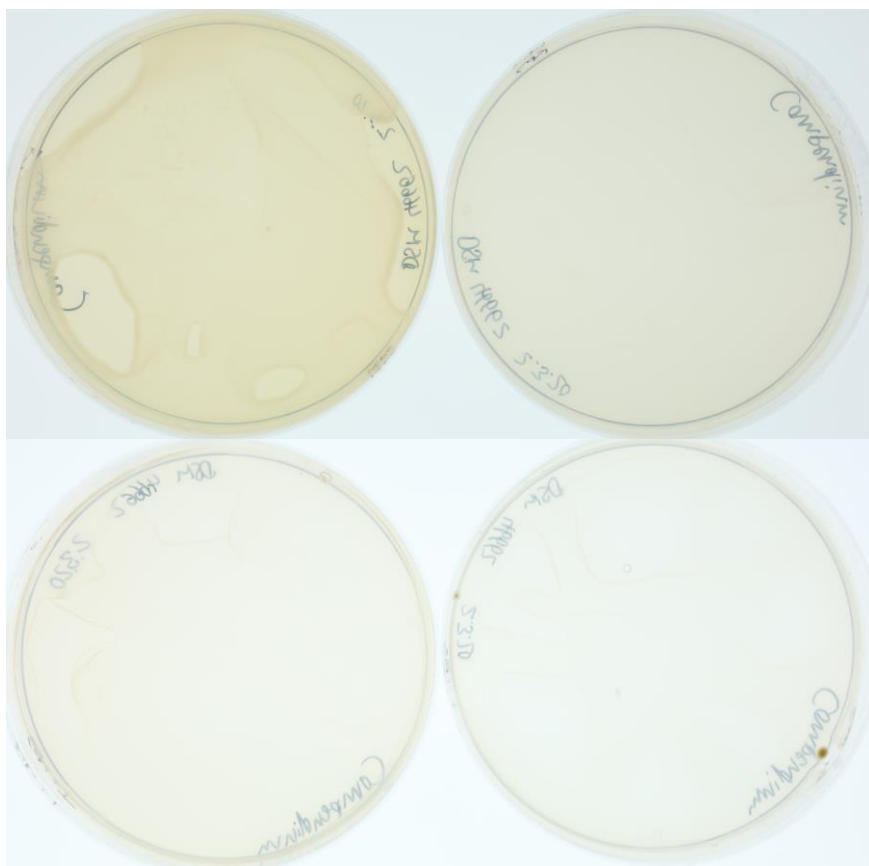


Abbildung 2: Apizym-Teststreifen mit Keim DSM 46662.

**Plates (535, ISP2, ISP3, ISP4, ISP5, ISP7)**

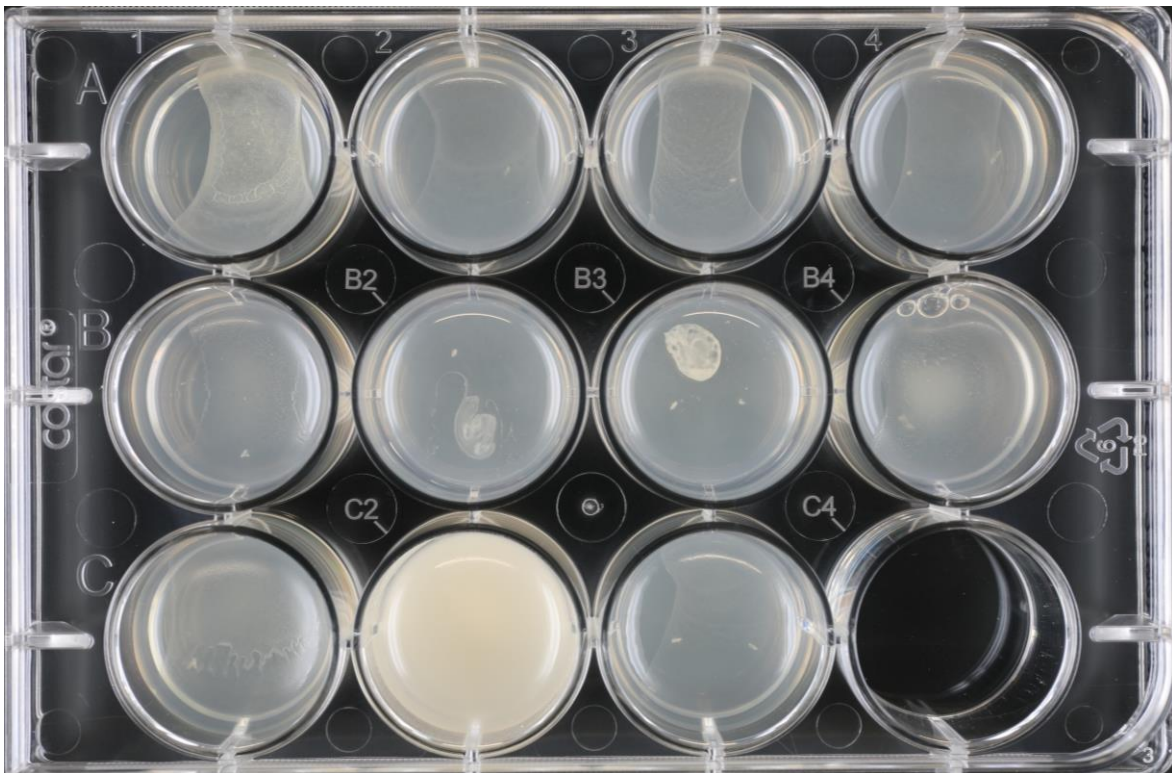
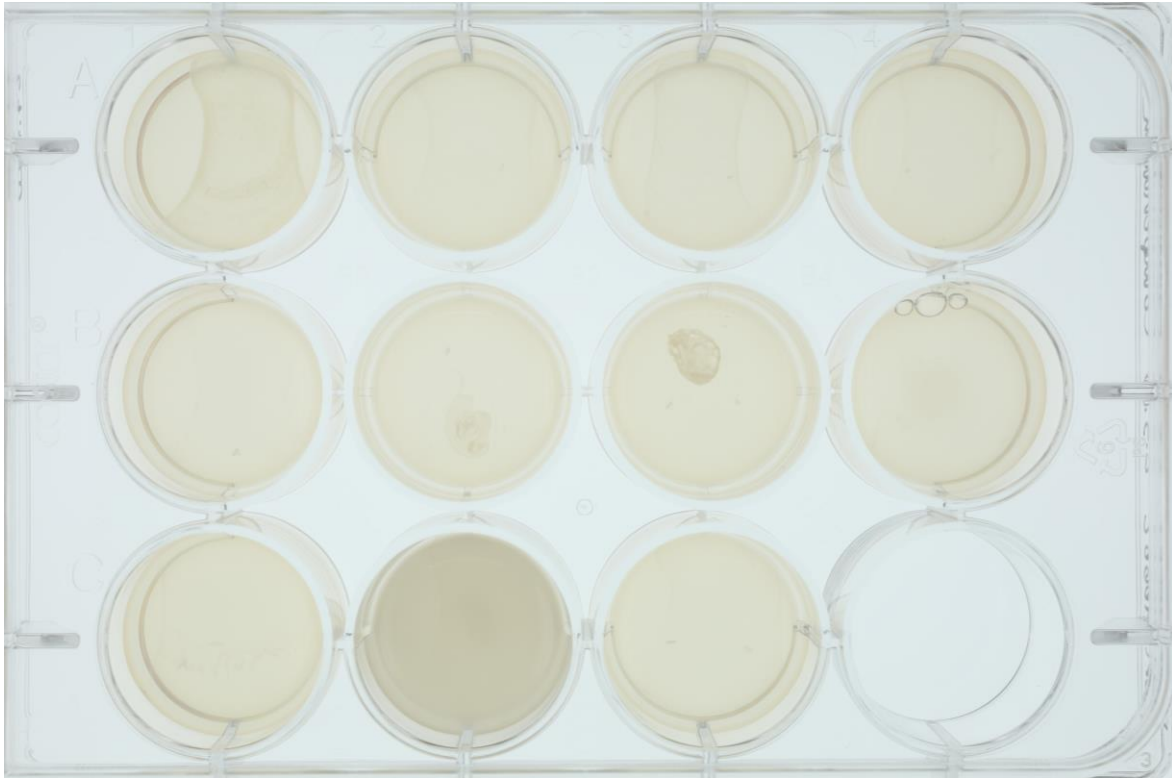


(ISP6, ISP7, SSM+T, SSM-T)





**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%)**

