

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

Strain		DSM 45782
Genus		<b><i>Micromonospora</i></b>
Species		<b><i>maritima</i></b>
Status		
Risk group		L1
Type strain		JCM 17013, NBRC 108767, TISTR 2000, D10-9-5, PCU 322
Genbank accession numbers		16S rRNA gene: <a href="#">HQ704071</a>
Reference		
Author		Songsumanus, A., Tanasupawat, S., Igarashi, Y., Kudo, T.
Title		<i>Micromonospora</i> <i>maritima</i> sp. nov., isolated from mangrove soil
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>63 ( Pt 2 )</b>
Page		554-9
Year		2013
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	ocher brown (8001)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	saffron yellow (1017)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	none
Agar	ISP 4 - R	none
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	none
Agar	ISP 5 - R	none
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	maize yellow (1006)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	none
Agar	ISP 7 - R	none
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	saffron yellow (1017)

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Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	saffron yellow (1017)
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 alcaline	5
Api zym	Esterase (C4)	1
Api zym	Esterase Lipase (C8)	1
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	3
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	3
Api zym	Naphtol-AS-BI-phosphohydrolase	2
Api zym	alpha galactosidase	4
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	1
Api zym	N-acetyl-beta-glucoseamidase	4
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



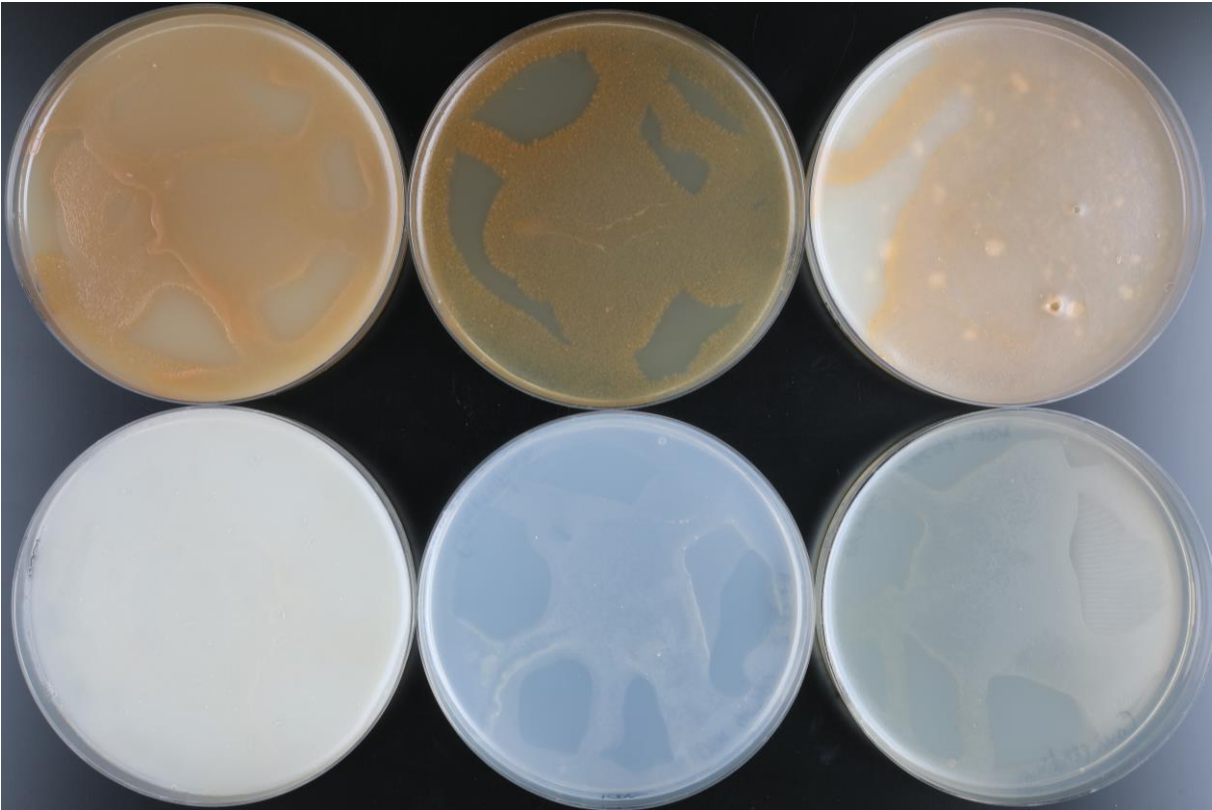
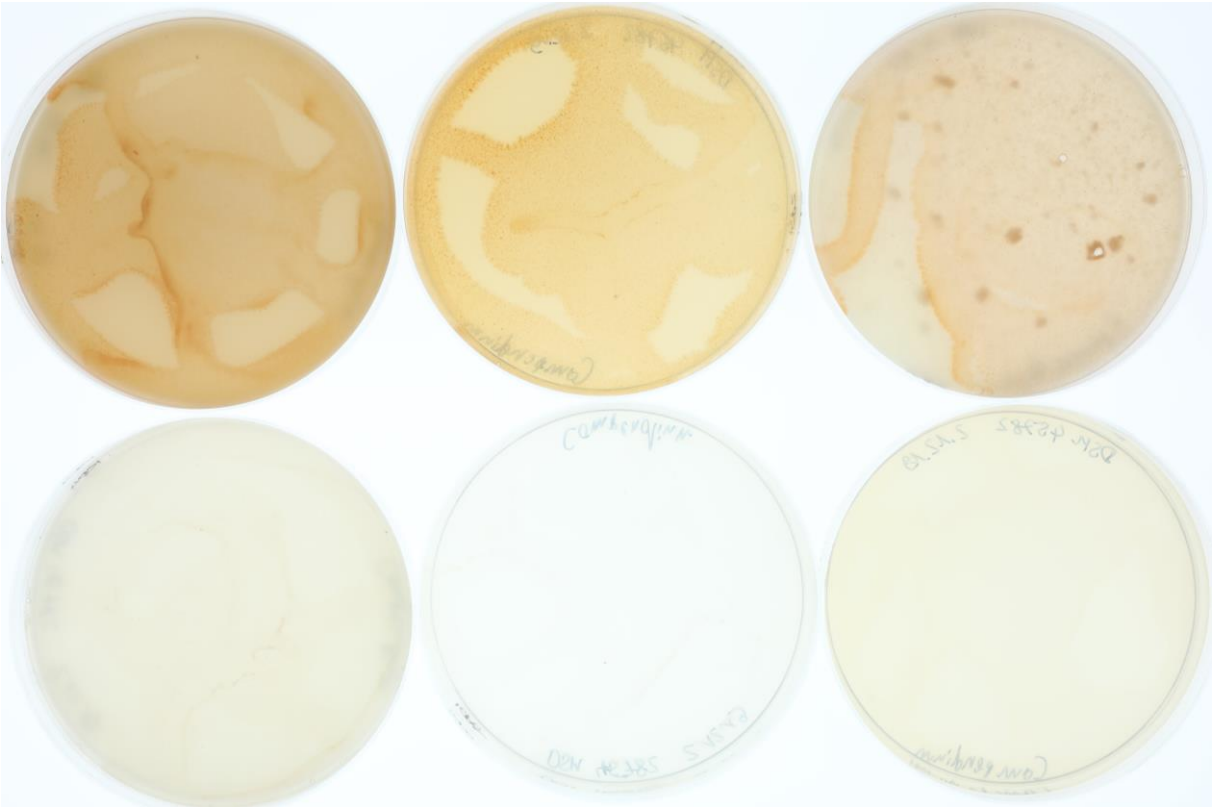
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 45782.

### Apizym

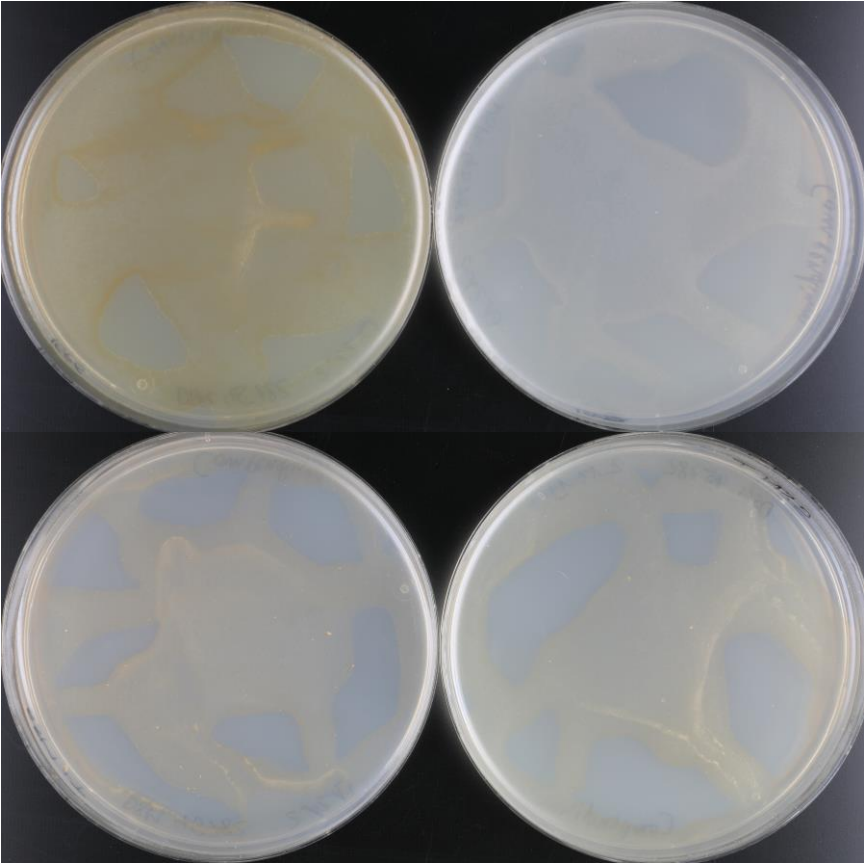


Abbildung 2: Apizym-Teststreifen mit Keim DSM 45782.

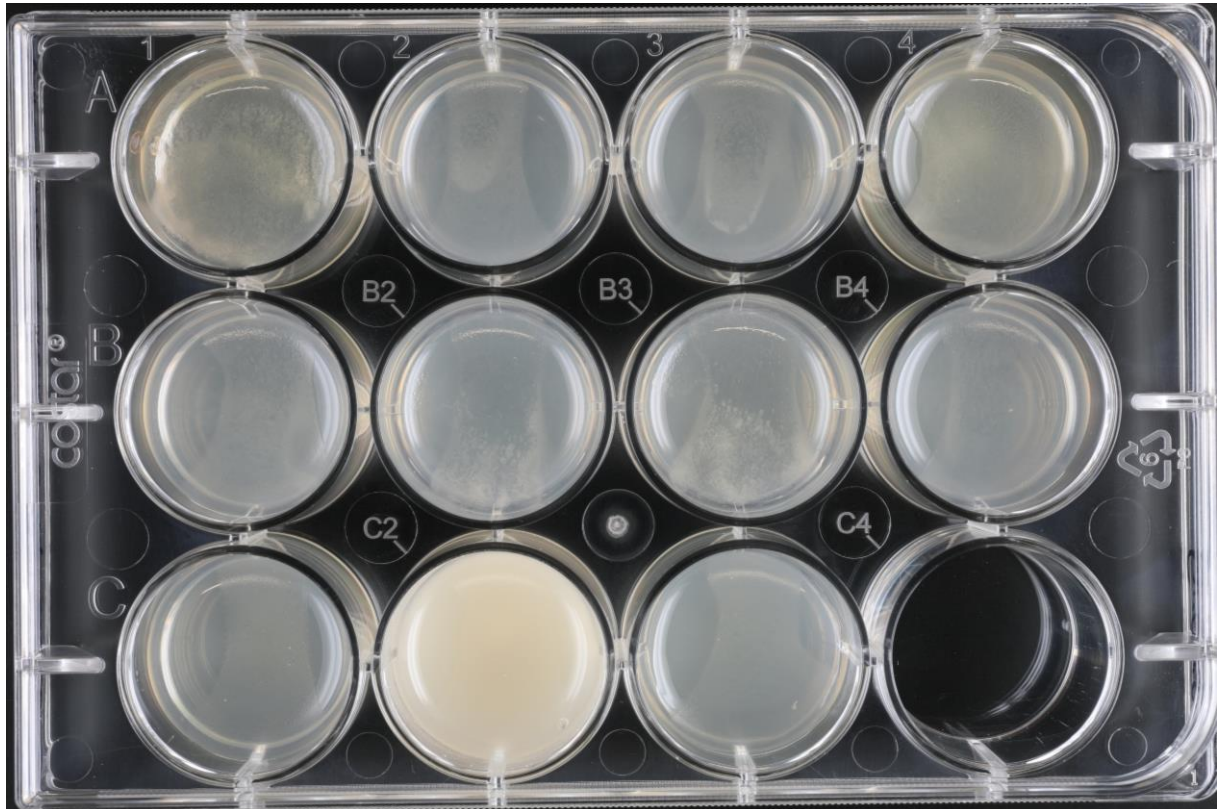
**Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)**



(ISP6, ISSP7, 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%)**

