

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

<b>Strain</b>		DSM 25320
Genus		<i>Nocardioides</i>
Species		<i>daejeonensis</i>
<b>Status</b>		
Risk group		L1
Type strain		MJ31, JCM 16922, KCTC 19772
Genbank accession number		16S rRNA gene: <a href="#">JF937066</a>
<b>Reference</b>		
Author		Woo, S. G., Srinivasan, S., Yang, J., Jung, Y. A., Kim, M. K., Lee, M.
Title		<i>Nocardioides daejeonensis</i> sp. nov., a denitrifying bacterium isolated from sludge in a sewage-disposal plant
Journal		Int J Syst Evol Microbiol
Volume		62 (Pt5)
Page		1199-1203
Year		2012
<b>Morphology</b>		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	1001 beige
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1013 oyster white
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	1013 oyster white
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1013 oyster white, 1014 ivory
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	1001 beige
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	1015 light ivory
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None

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Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	1001 beige
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1014 ivory
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
<b>Physiology</b>		
Melanin		0
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		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)	3
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	2
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	4
Api zym	Cystine arylamidase	1
Api zym	Trypsin	2
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	1
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
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.

### APIzym

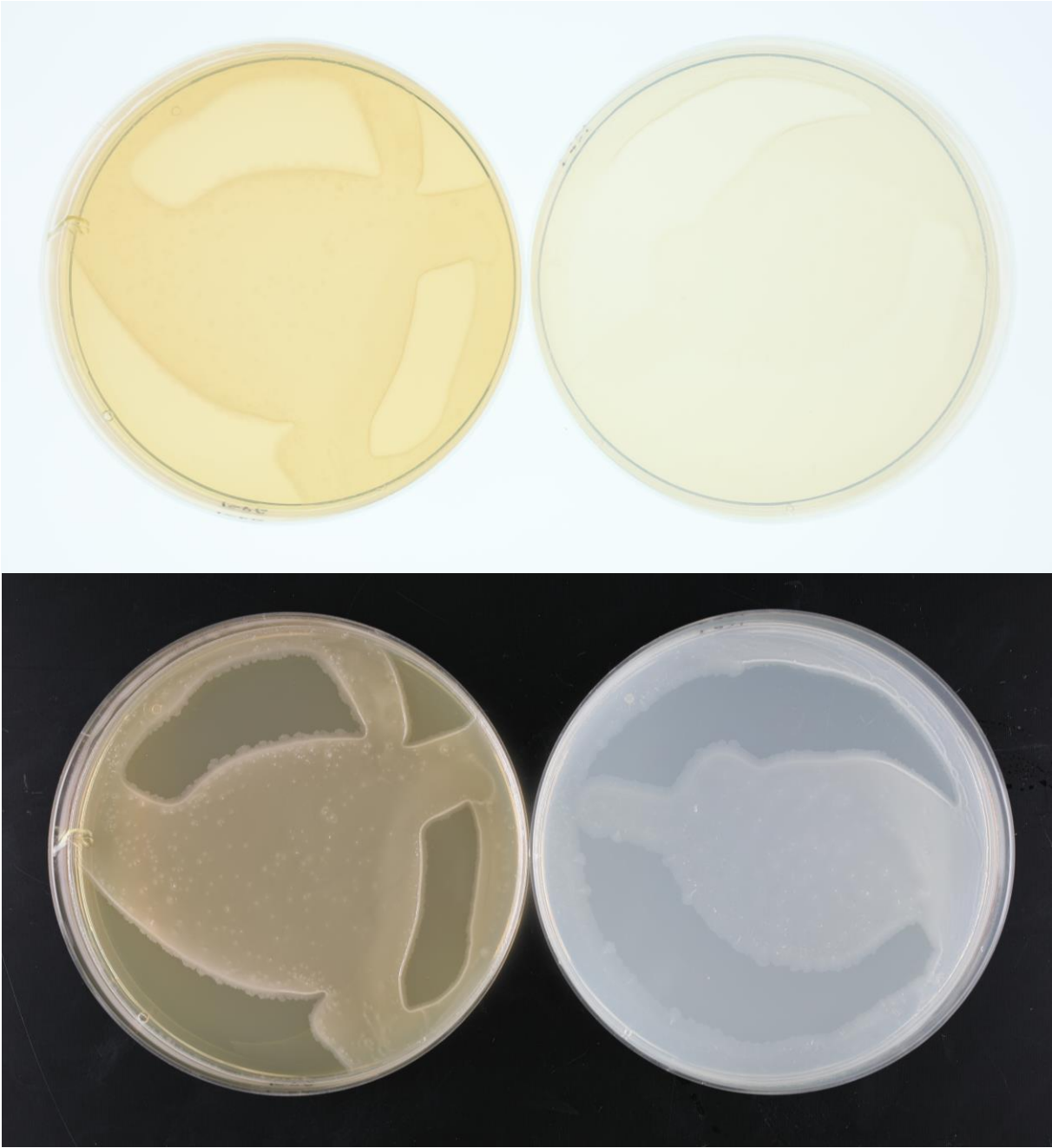


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

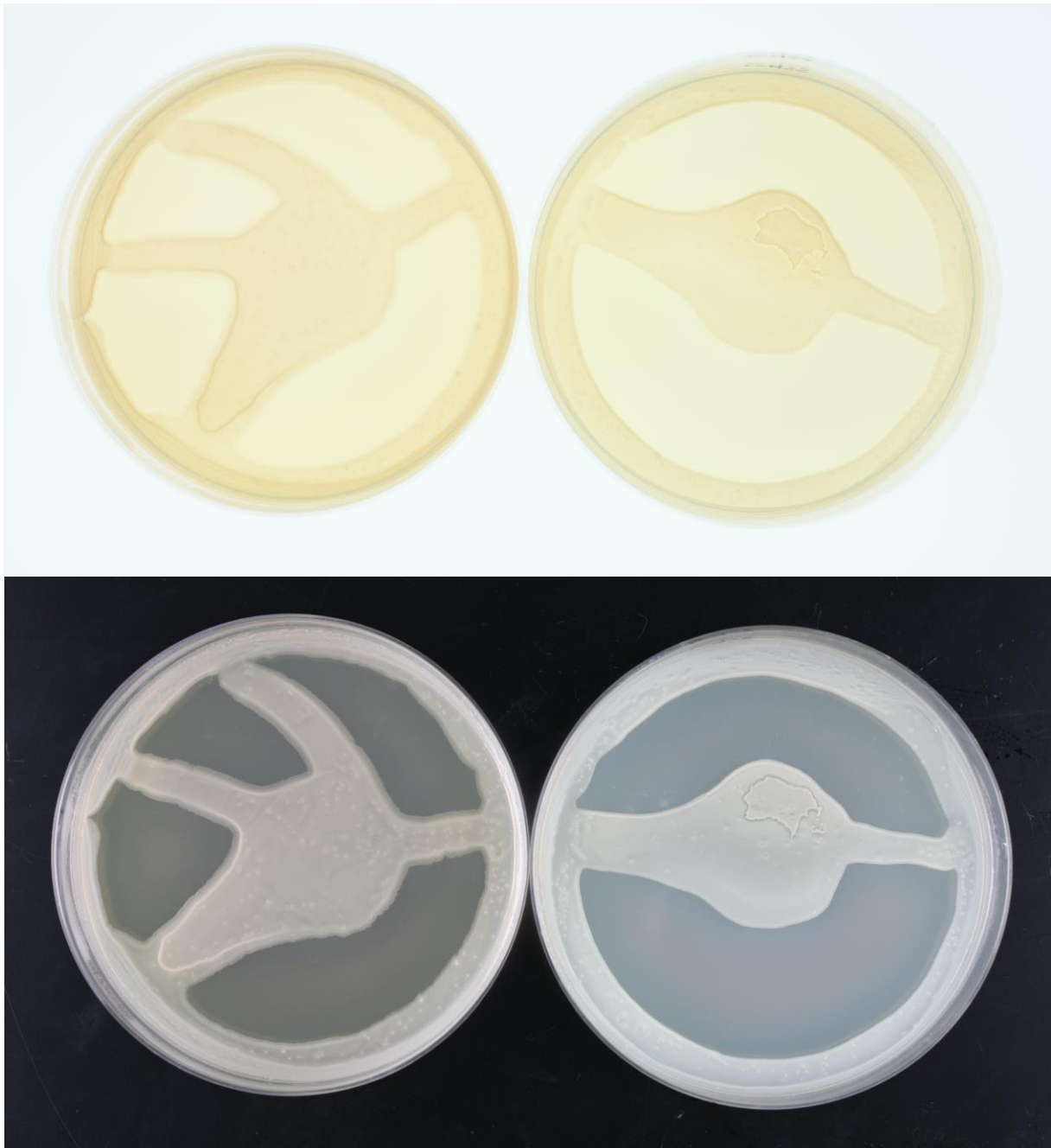
**Plates (92, ISP2, ISP3, ISP4, ISP5, ISP7)**



(ISP6, ISP7)

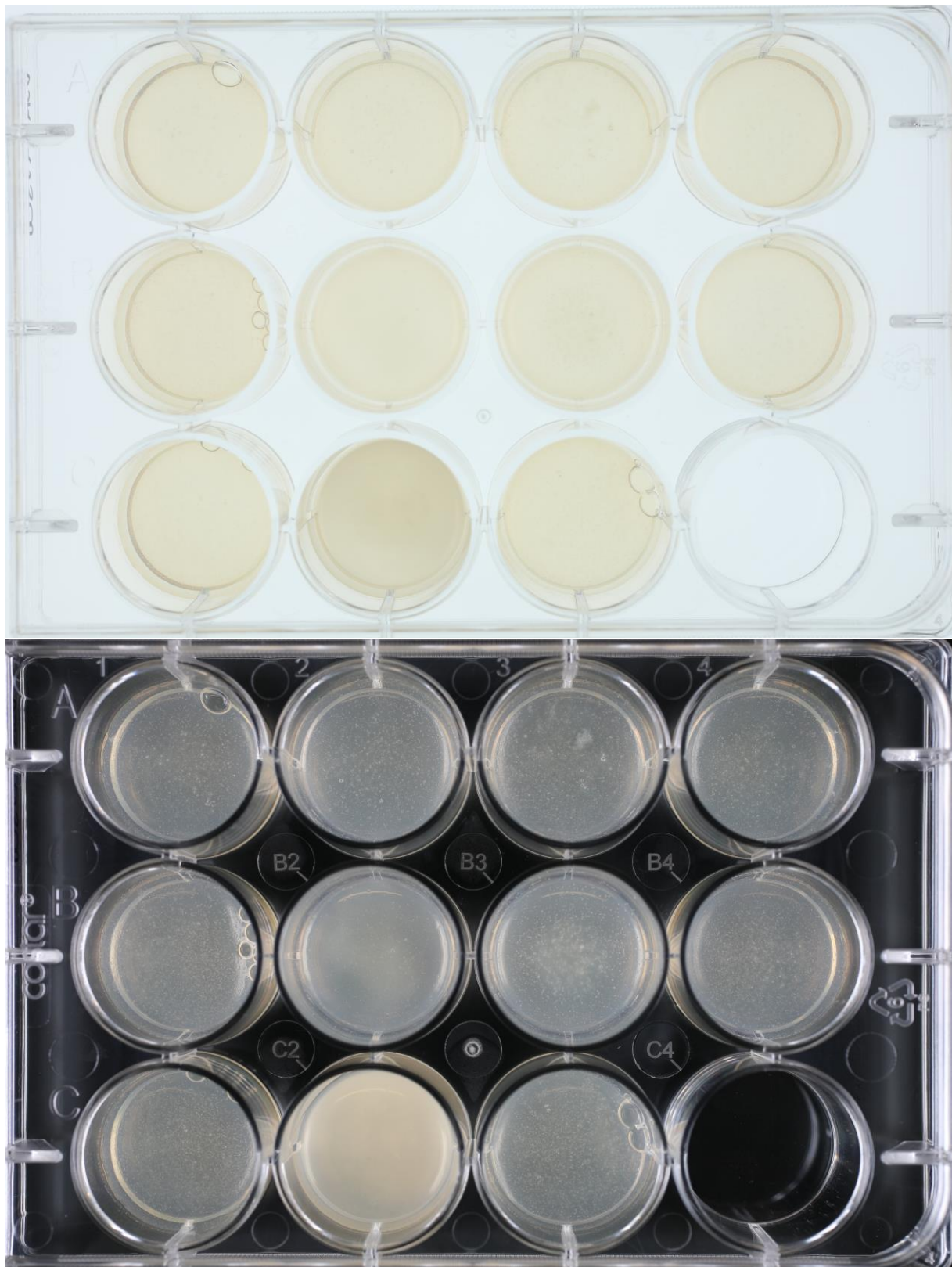


(SSM+T, SSM-T)





**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%)**

