

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 41914
Genus		<i>Streptomyces</i>
Species		<i>himastatinicus</i>
Status		
Risk group		
Type strain		ATCC 53653, DSM 41914
Reference		
Author		Kumar, Y., Goodfellow, M.
Title		Five new members of the <i>Streptomyces violaceusniger</i> 16S rRNA gene clade: <i>Streptomyces castelarensis</i> sp. nov., comb. nov., <i>Streptomyces himastatinicus</i> sp. nov., <i>Streptomyces mordarskii</i> sp. nov., <i>Streptomyces rapamycinicus</i> sp. nov. and <i>Streptomyces ruanii</i> sp. nov..
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		58 (Pt 6)
Page		1369-1378
Year		2008
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	sparse
Agar	ISP 2 - soluble pigment/S	sand yellow (1002)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	n. d.
Agar	ISP 3 - A	mouse grey (7005) / traffic grey A (7042) / signal white (9003)
Agar	ISP 3 - S	none
Agar	ISP 4 - G	decreased
Agar	ISP 4 - R	colorless
Agar	ISP 4 - A	grey white (9002)
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	grey beige (1019)
Agar	ISP 5 - A	sparse
Agar	ISP 5 - S	grey beige (1019)
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	sand yellow (1002)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	green brown (8000)
Agar	ISP 7 - A	stone grey (7030)
Agar	ISP 7 - S	green brown (8000)
Agar	suter with tyrosine - G	good

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Agar	suter with tyrosine - R	ocher brown (8001)
Agar	suter with tyrosine - A	grey white (9002)
Agar	suter with tyrosine - S	ocher brown (8001)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	ivory (1014)
Agar	suter without tyrosine - A	light ivory (1015)
Agar	suter without tyrosine - S	ivory(1014)
	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)	0
Api zym	Esterase Lipase (C8)	0
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	1
Api zym	Trypsin	1
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	4
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	3
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	2
Api zym	beta GLUCOSIDASE	4
Api zym	N-acetyl-beta-glucoseamidase	4
Api zym	alpha mannosidase	3

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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	-
Metabolites		
Antimicrobial	Staphylococcus aureus	
Antimicrobial	Escherichia coli	
Antimicrobial	Micrococcus luteus	
Antimicrobial	Pseudomonas aeruginosa	
Antimicrobial	Streptomyces murinus	
Antimicrobial	Bacillus subtilis	
Antimicrobial	Candida albicans	
Antimicrobial	Saccharomyces cerevisiae	
Antimicrobial	Aspergillus niger	

Apicoryne



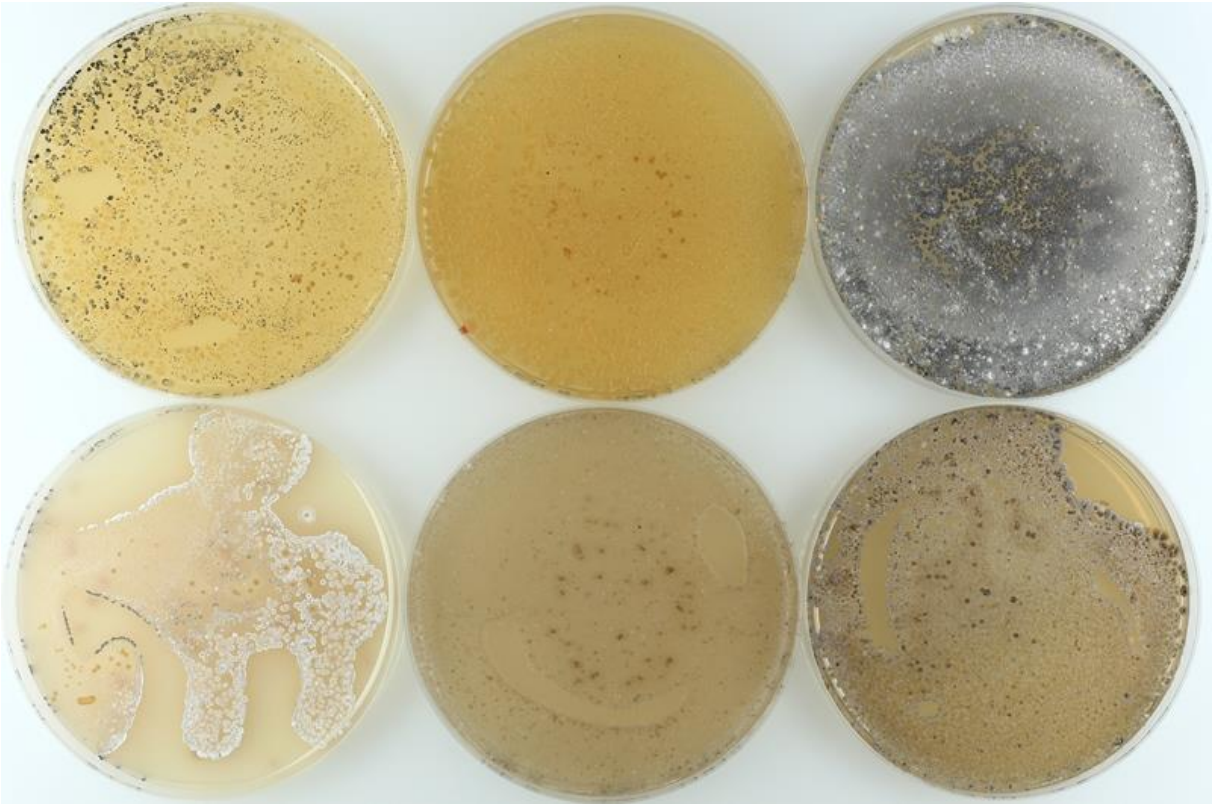
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 41914.

Apizym



Abbildung 2: Apizym-Teststreifen mit Keim DSM 41914.

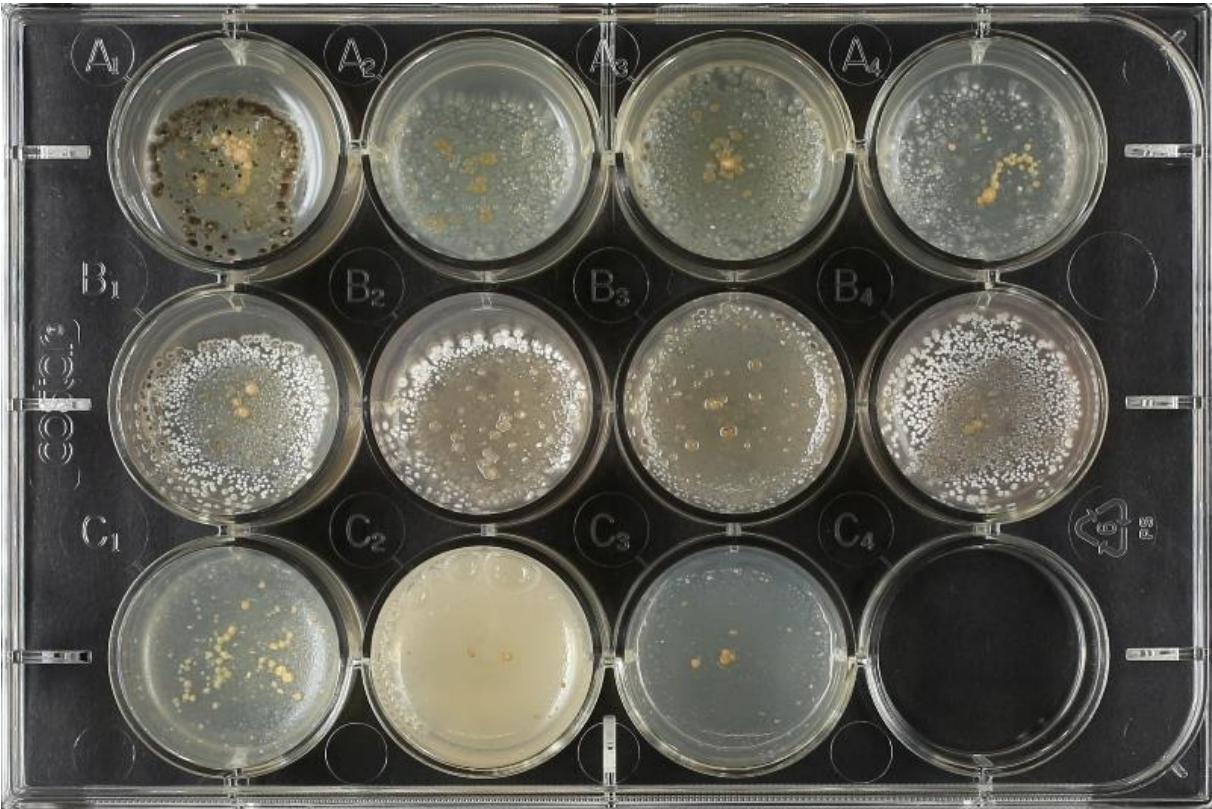
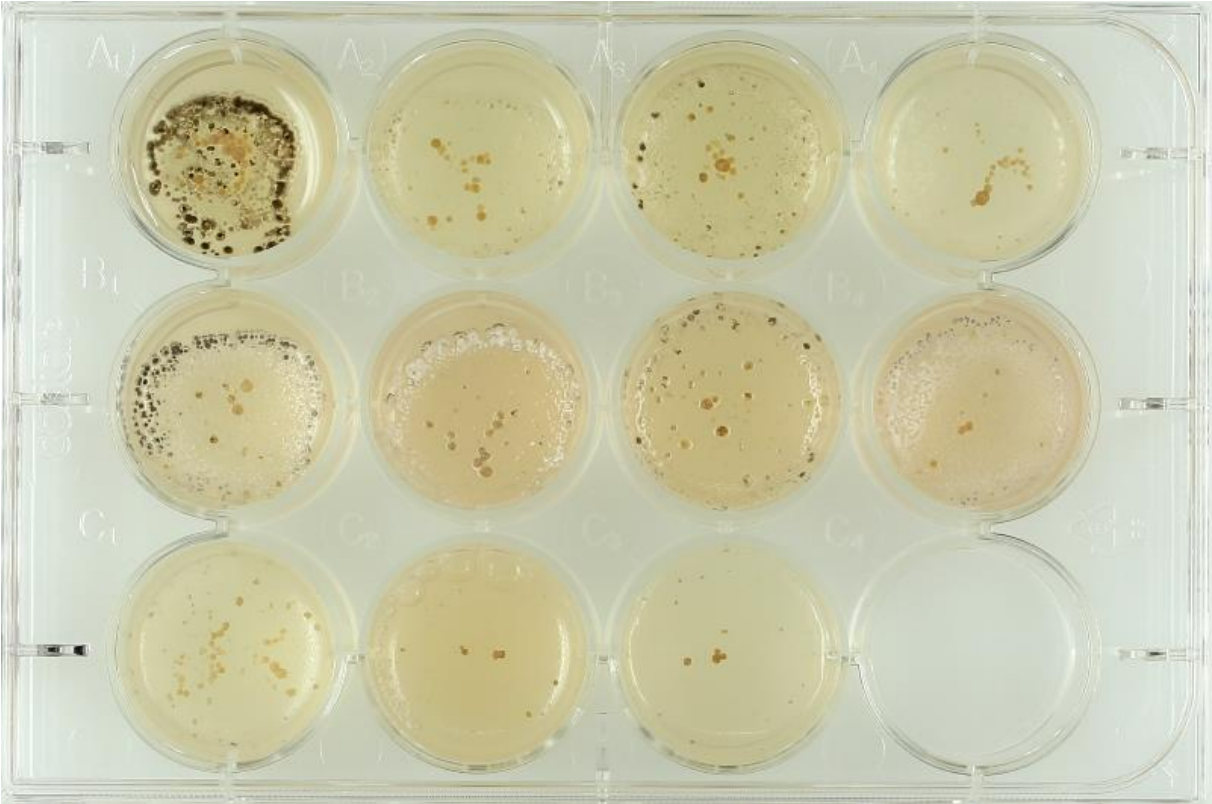
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(ISP6, 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%)

