

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 40127
Genus		<i>Streptomyces</i>
Species		<i>aureofaciens</i>
Status		
Risk group		1
Type strain		A-377, ATCC 10762, ATCC 23884, CBS 664.68, IFO 12594, IFO 12843, ISP 5127, JCM 4008, NBRC 12594, NBRC 12843, NRRL 2209, RIA 1129
Reference		
Author		Groth, I., Schütze, B., Boettcher, T., Pullen, C. B., Rodriguez, C., Leistner, E., Goodfellow, M.
Title		<i>Kitasatospora putterlickiae</i> sp. nov., isolated from rhizosphere soil, transfer of <i>Streptomyces kifunensis</i> to the genus <i>Kitasatospora</i> as <i>Kitasatospora kifunensis</i> comb. nov., and emended description of <i>Streptomyces aureofaciens</i> Duggar 1948
Journal		<i>Int.J.Syst.Evol.Microbiol.</i>
Volume		53
Page		
Year		1948,2003
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	RAL 1002 sand yellow
Agar	ISP 2 - aerial mycelium/A	RAL 7036 platinum grey, RAL 9016 traffic white
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	RAL 1002 sand yellow
Agar	ISP 3 - A	RAL 7023 concrete grey
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Sparse
Agar	ISP 4 - R	RAL 1024 ochre yellow
Agar	ISP 4 - A	RAL 7006 beige grey
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good/ Sparse
Agar	ISP 5 - R	RAL 1002 sand yellow
Agar	ISP 5 - A	RAL 7006 beige grey, RAL 9001 cream
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Sparse
Agar	ISP 6 - R	RAL 1002 sand yellow
Agar	ISP 6 - A	Sparse

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Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	RAL 1005 honey yellow
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good/ sparse
Agar	suter with tyrosine - R	RAL 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	RAL 1001 beige
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		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)	2-3
Api zym	Esterase Lipase (C8)	2-3
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	2-3
Api zym	Cystine arylamidase	1
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	1

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Api zym	beta galactosidase	4-5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4
Api zym	beta GLUCOSIDASE	0-1
Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	3-4
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	-
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



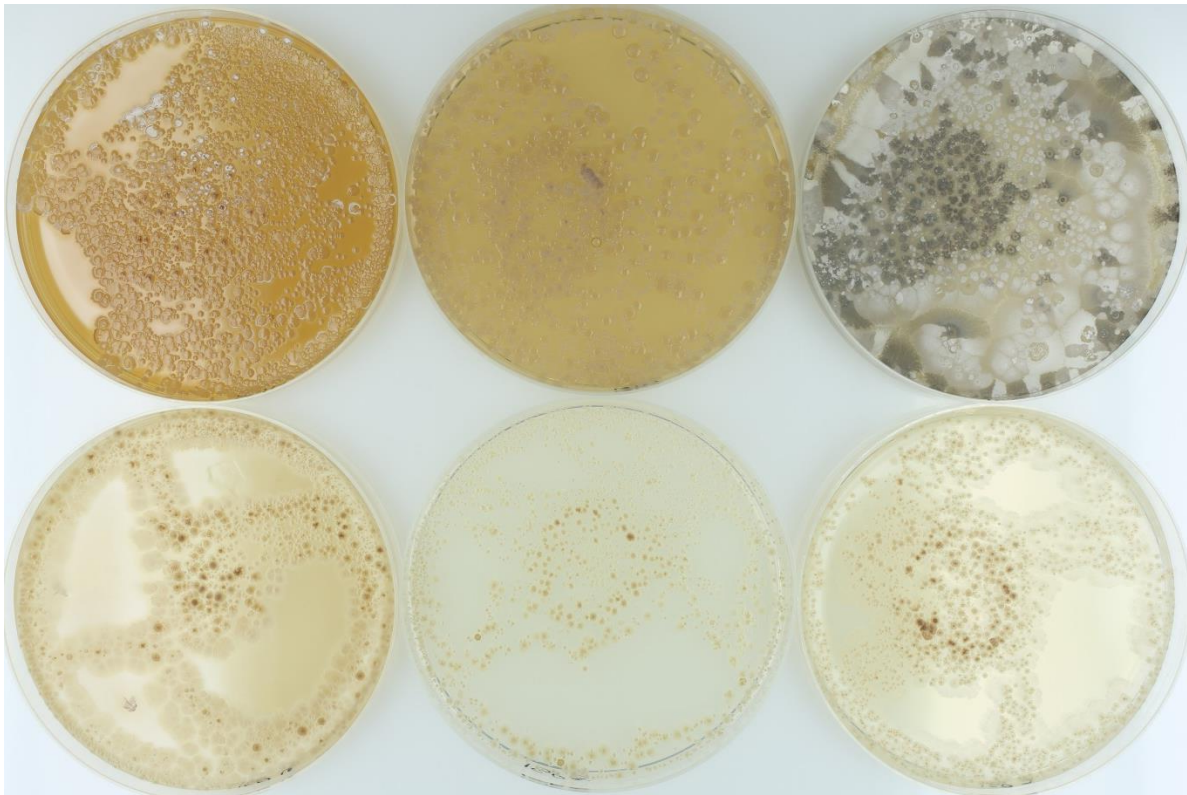
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

Apizym

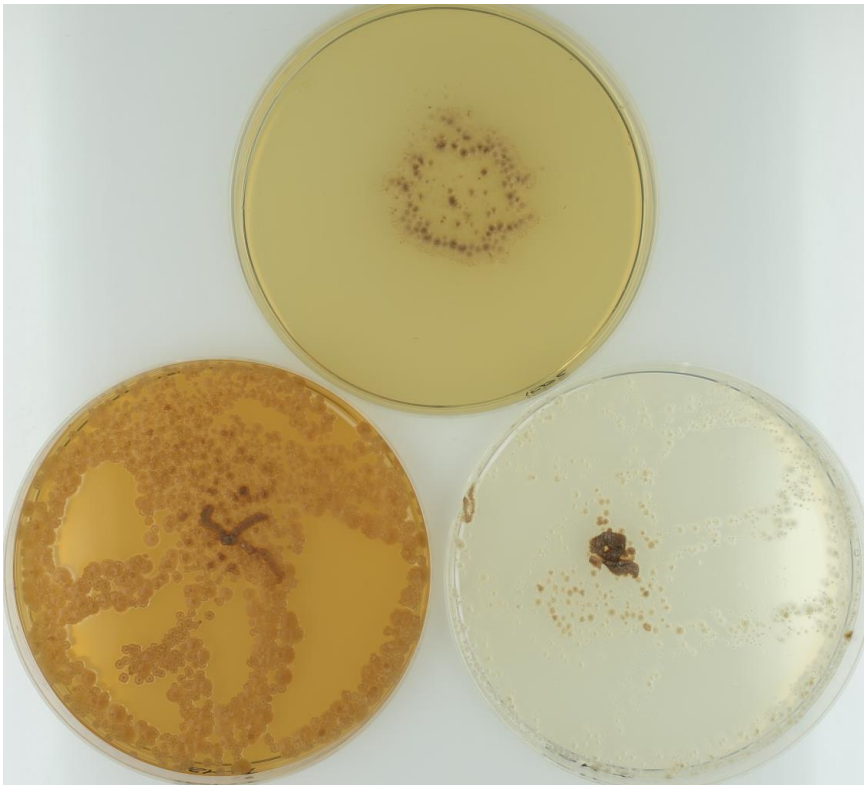


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

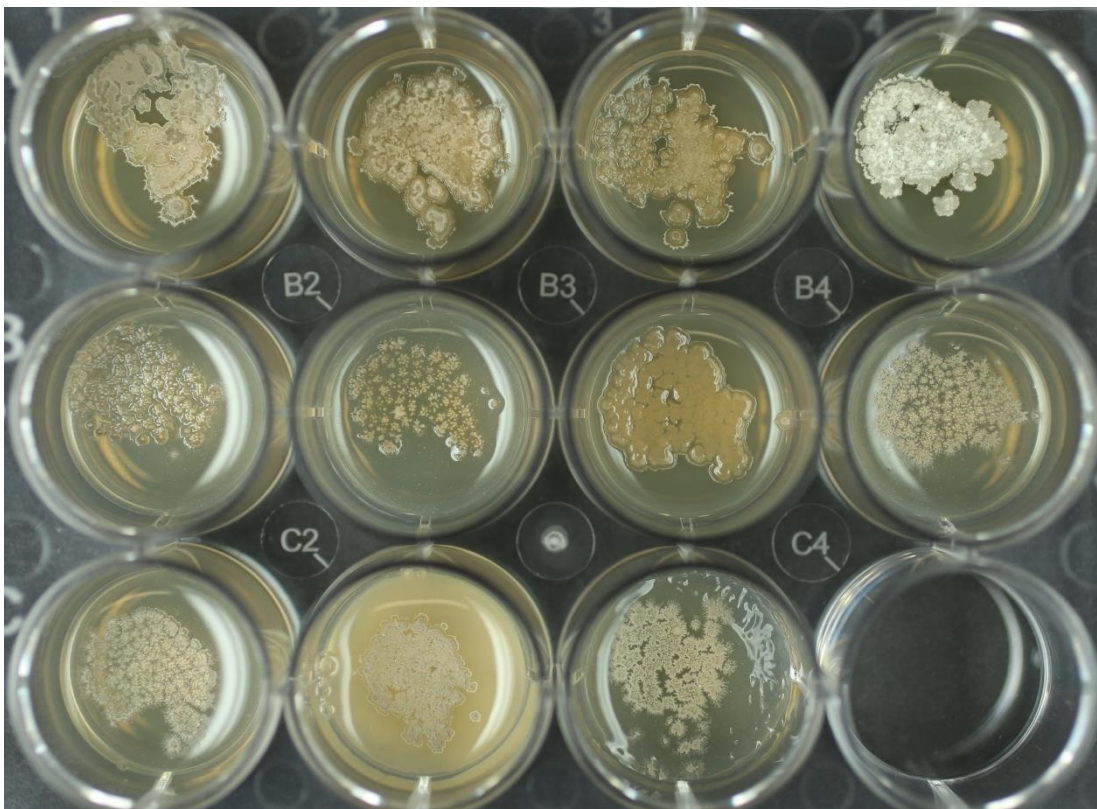
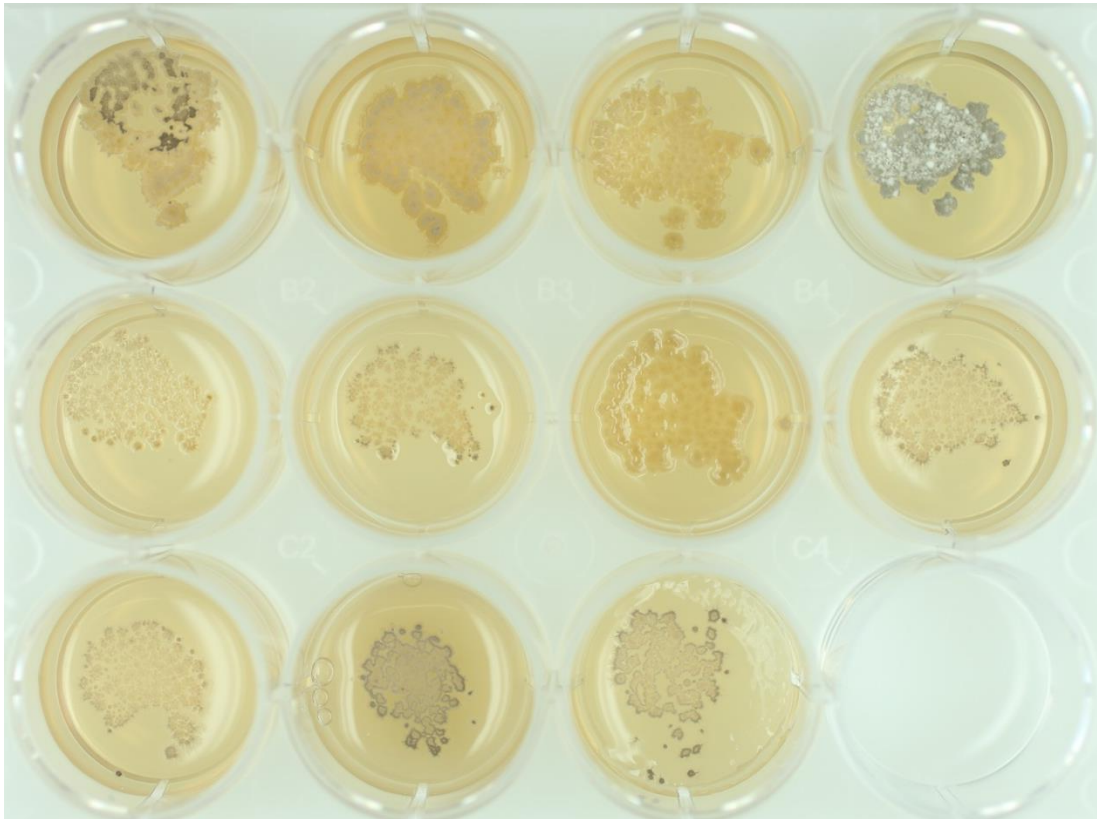
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

