

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

Strain		DSM 42057
Genus		<b><i>Streptomyces</i></b>
Species		<b><i>staurosporinius</i></b>
Status		
Risk group		L1
Type strain		KACC 20912, NRRL B-24850, BK179
Reference		
Author		Kim, B. Y., Zucchi, T. D., Fiedler, H. P., Goodfellow, M.
Title		<i>Streptomyces staurosporinius</i> sp. nov., a staurosporine-producing actinomycete
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>62</b>
Page		966-970
Year		2012
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	n.d.
Agar	ISP 2 - aerial mycelium/A	Pure white (9010)
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	n.d.
Agar	ISP 3 - A	Signal white (9003)
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	Light ivory (1015)
Agar	ISP 4 - A	Traffic white (9016)
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	n.d.
Agar	ISP 5 - A	Pure white (9010), signal grey (7004)
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Sparse
Agar	ISP 6 - R	Beige (1001)
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	n.d.
Agar	ISP 7 - A	Signal white (9003), grey white (9002)
Agar	ISP 7 - S	Sand yellow (1002)
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Sand yellow (1002)
Agar	suter with tyrosine - A	None

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Agar	suter with tyrosine - S	Ivory (1014)
Agar	suter without tyrosine - G	Sparse – good
Agar	suter without tyrosine - R	Ivory (1014)
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	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	2
Api zym	Trypsin	1
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	4
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	3
Api zym	beta GLUCOSIDASE	4
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	3
Api zym	alpha fucosidase	1
Api coryne	nitrate reduction	-

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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.

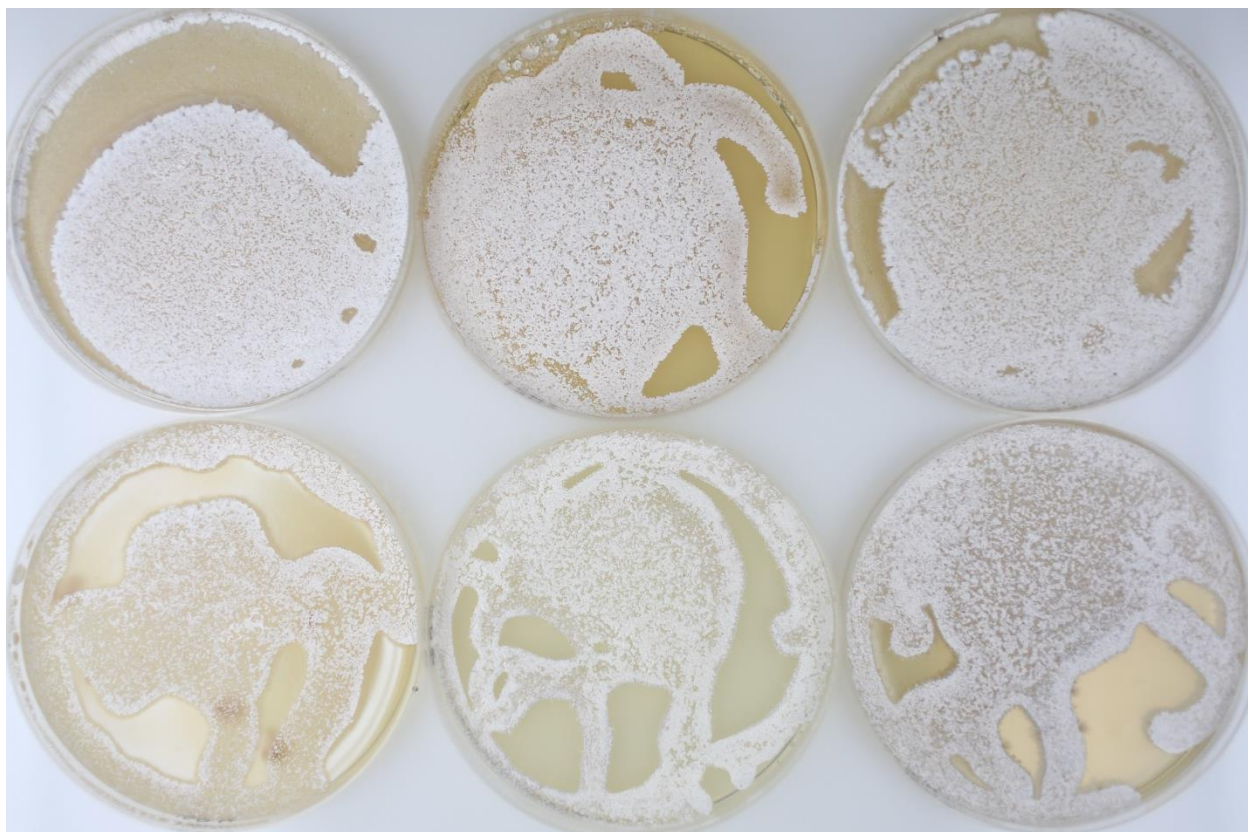
## Apizym



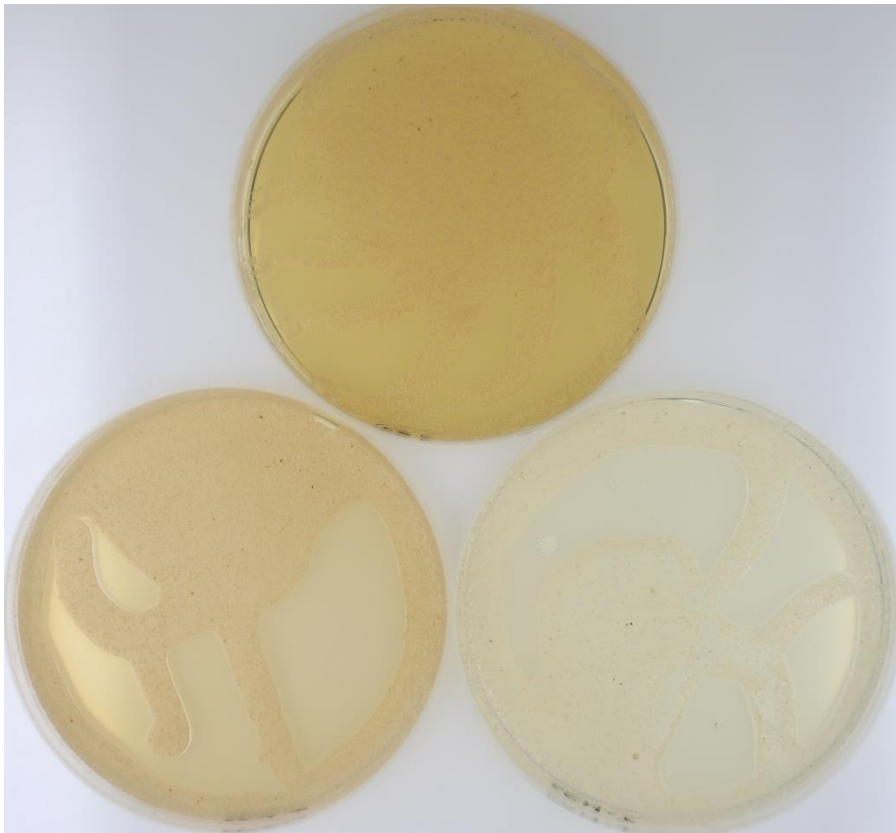
Abbildung 2: Apizym-Teststreifen mit Keim DSM.



**Plates** (84, ISP2, ISP3, ISP4, ISP5, ISP7)

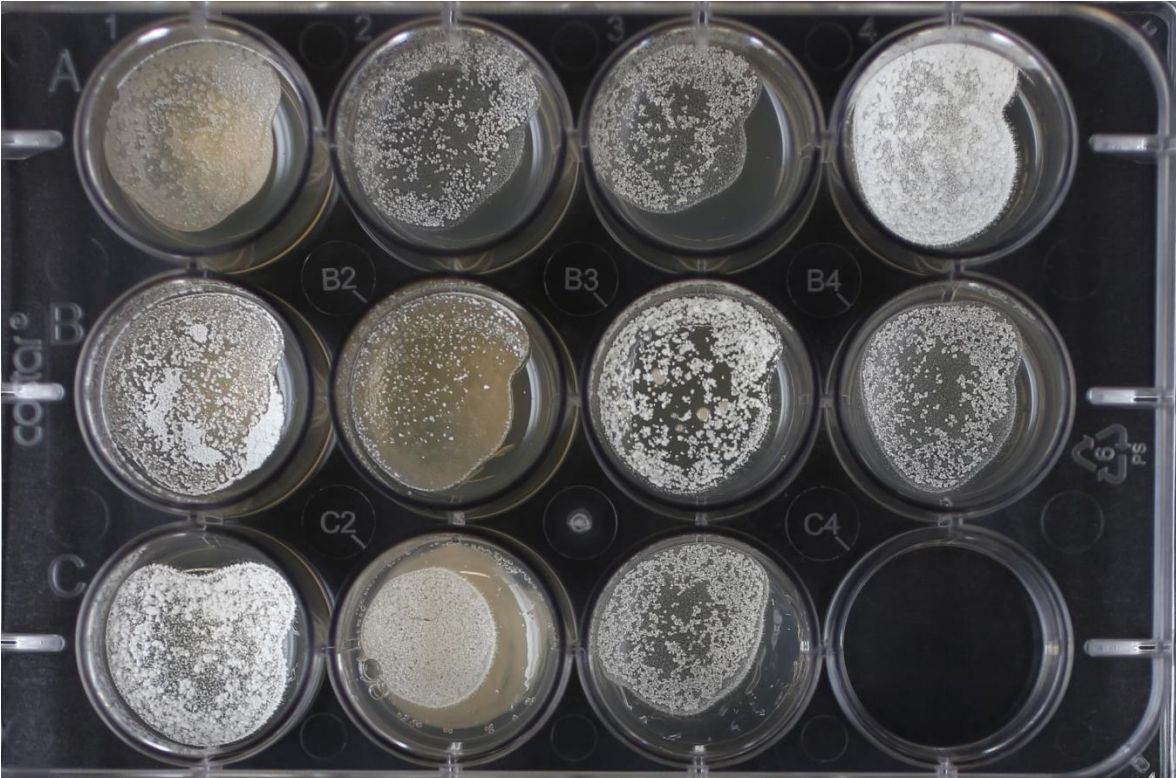
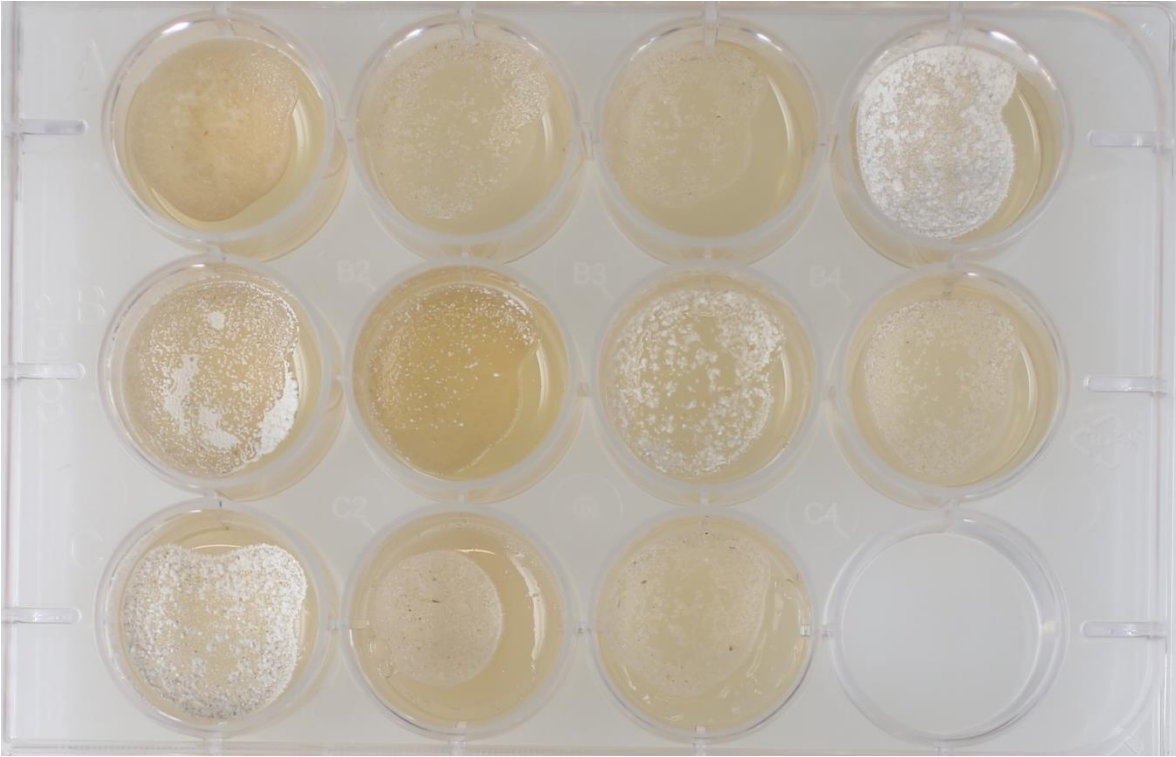


(ISP6, SSM+T, SSM-T)





**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%)**

