

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 41771
Genus		<i>Streptomyces</i>
Species		<i>yatensis</i>
Status		
Risk group		L1
Type strain		SFOcin 76, CIP 109043, NBRC 101000, NRRL B-24116
Reference		
Author		Saintpierre, D., Amir, H., Pineau, R., Sembiring, L., Goodfellow, M.
Title		<i>Streptomyces yatensis</i> sp. nov., a novel bioactive streptomycete isolated from a New-Caledonian ultramafic soil.
Journal		<i>Antonie van Leeuwenhoek</i>
Volume		83
Page		21-26
Year		2003
Author		/
Title		Validation of publication of new names and new combinations previously effectively published outside the IJSEM. List No. 93.
Journal		<i>Int.J.Syst.Evol.Microbiol.</i>
Volume		53
Page		1219-1220
Year		2003
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	ivory (1014)
Agar	ISP 2 - aerial mycelium/A	light ivory (1015) / signal black (9004)
Agar	ISP 2 - soluble pigment/S	ivory (1014)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	ivory (1014)
Agar	ISP 3 - A	dusty grey (7037) / signal black (9004)
Agar	ISP 3 - S	ivory (1014)
Agar	ISP 4 - G	decreased
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	ivory (1014)
Agar	ISP 5 - A	quarz grey (7039) / signal white (9003)
Agar	ISP 5 - S	ivory (1014)
Agar	ISP 6 - G	sparse

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Agar	ISP 6 - R	ivory (1014)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	beige (1001)
Agar	ISP 7 - A	dusty grey (7037) / signal white (9003)
Agar	ISP 7 - S	ochre yellow (1024)
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	ochre yellow (1024)
Agar	suter with tyrosine - A	sparse
Agar	suter with tyrosine - S	ochre yellow (1024)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	light ivory (1015)
Agar	suter without tyrosine - A	sparse
Agar	suter without tyrosine - S	light ivory (1015)
	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 alkaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	1
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	5
Api zym	Cystine arylamidase	3
Api zym	Trypsin	3
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	4

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



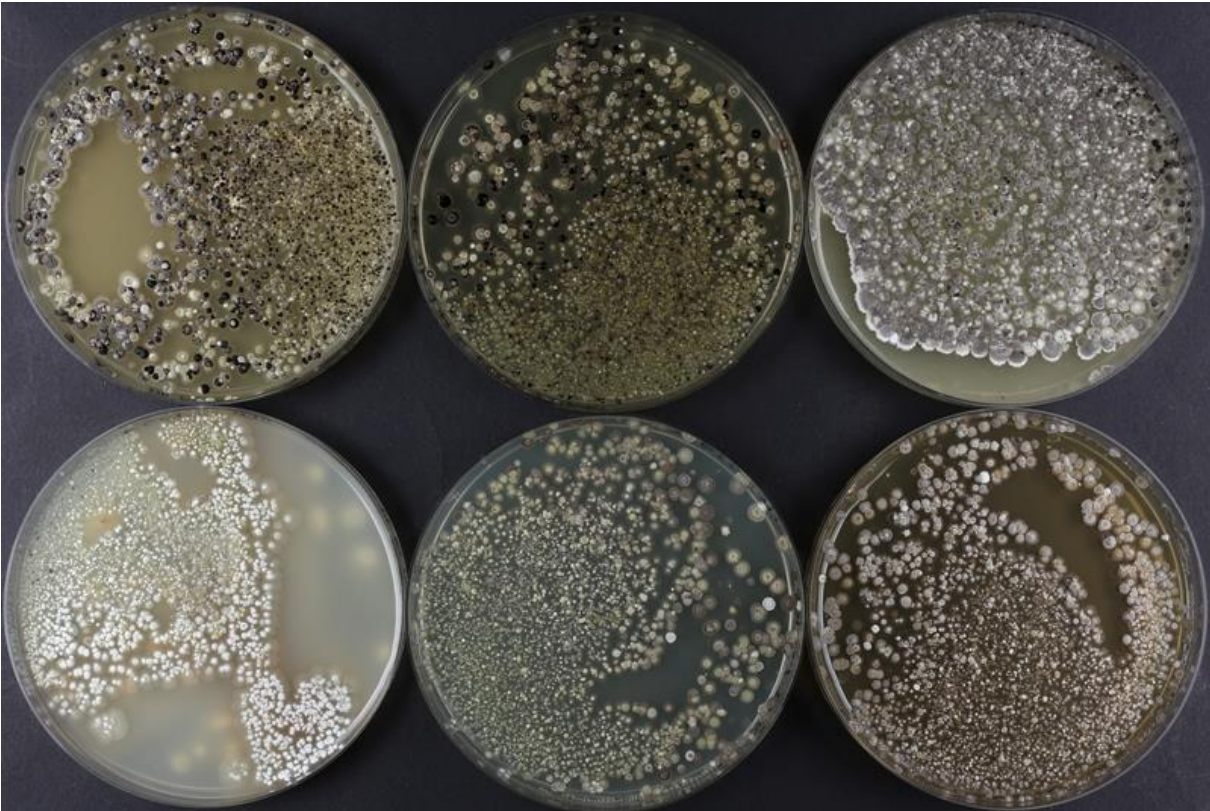
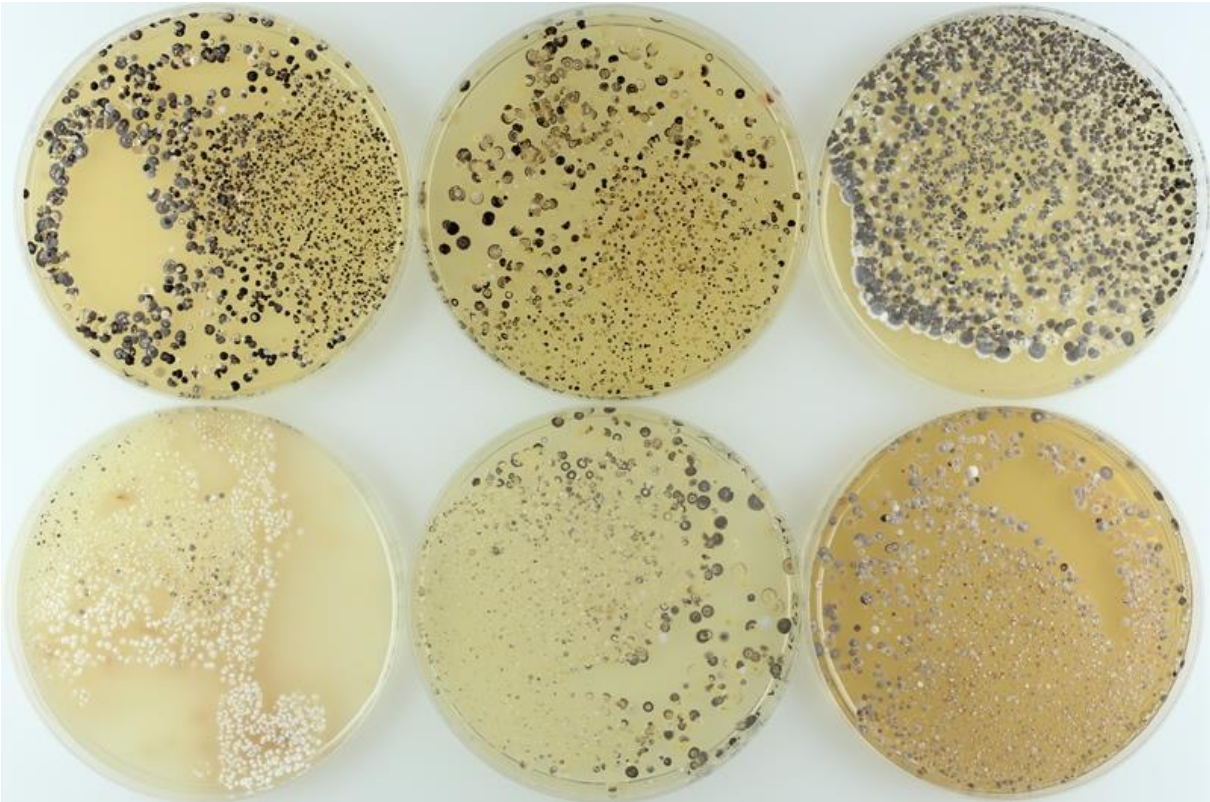
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 41771.

Apizym

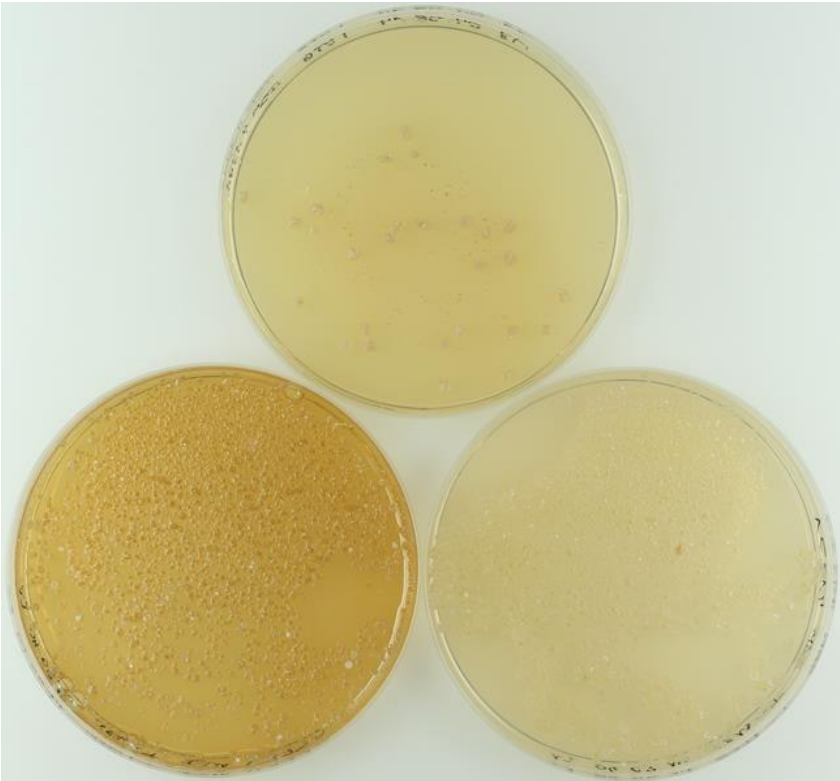


Abbildung 2: Apizym-Teststreifen mit Keim DSM 41771.

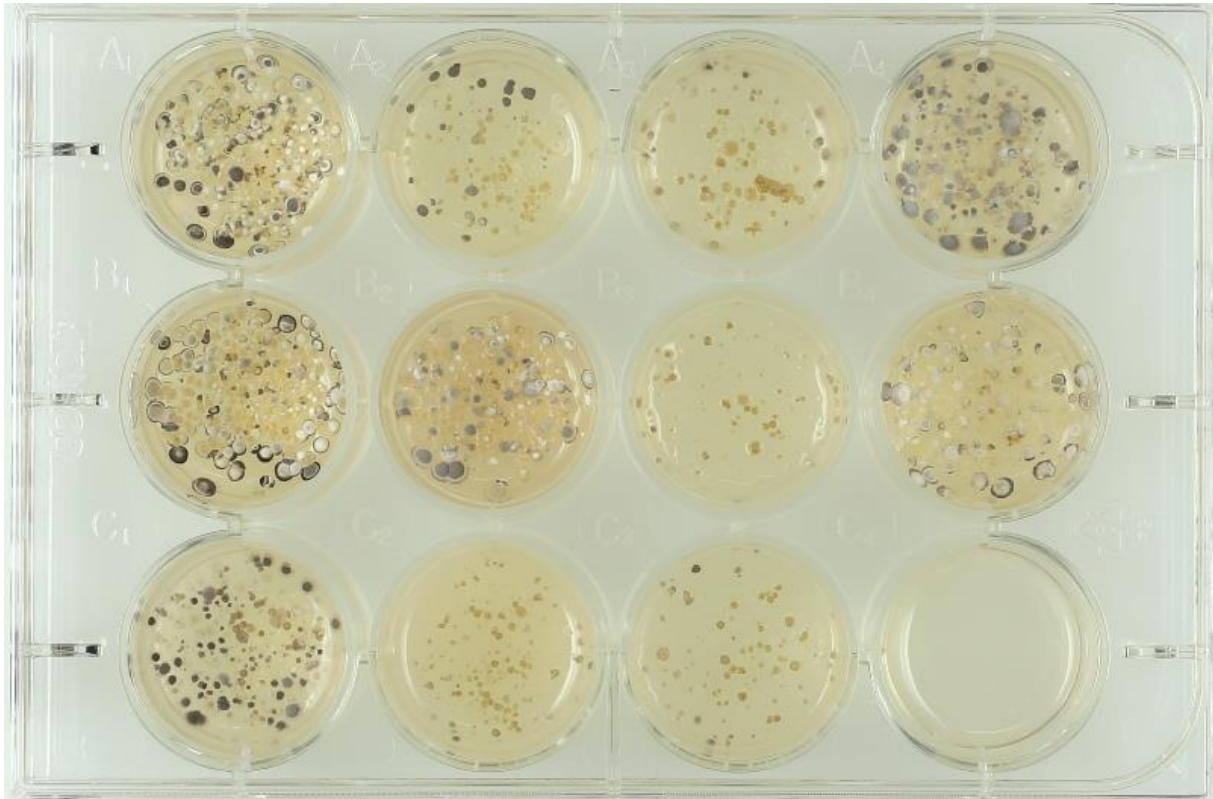
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

