

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

Strain		DSM 45773
Genus		<i>Actinomycetospora</i>
Species		<i>lutea</i>
Status		
Risk group		L1
Type strain		TT00-04, KACC 14254, NBRC 103690
Reference		
Author		Tamura, T., Ishida, Y., Hamada, M., Otaguro, M., Yamamura, H., Hayakawa, M., Suzuki, K.
Title		Description of <i>Actinomycetospora chibensis</i> sp. nov., <i>Actinomycetospora chlora</i> sp. nov., <i>Actinomycetospora cinnamomea</i> sp. nov., <i>Actinomycetospora corticicola</i> sp. nov., <i>Actinomycetospora lutea</i> sp. nov., <i>Actinomycetospora straminea</i> sp. nov. and <i>Actinomycetospora succinea</i> sp. nov. and emended description of the genus <i>Actinomycetospora</i> .
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 (Pt 6)
Page		1275-1280
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	golden yellow (1004)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good – decreased
Agar	ISP 3 - R	signal yellow (1003)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good – decreased
Agar	ISP 4 - R	dahlia yellow (1033)
Agar	ISP 4 - A	sparse
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good – decreased
Agar	ISP 5 - R	signal yellow (1003)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	good
Agar	ISP 6 - R	golden yellow (1004)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good – decreased
Agar	ISP 7 - R	signal yellow (1003)
Agar	ISP 7 - A	none

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Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good – decreased
Agar	suter with tyrosine - R	signal yellow (1003)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	good – decreased
Agar	suter without tyrosine - R	signal yellow (1003)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodium chloride tolerance		7,5%
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	0
Api zym	Esterase (C4)	3
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	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	2
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	2
Api zym	beta GLUCOSIDASE	0

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Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	0
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



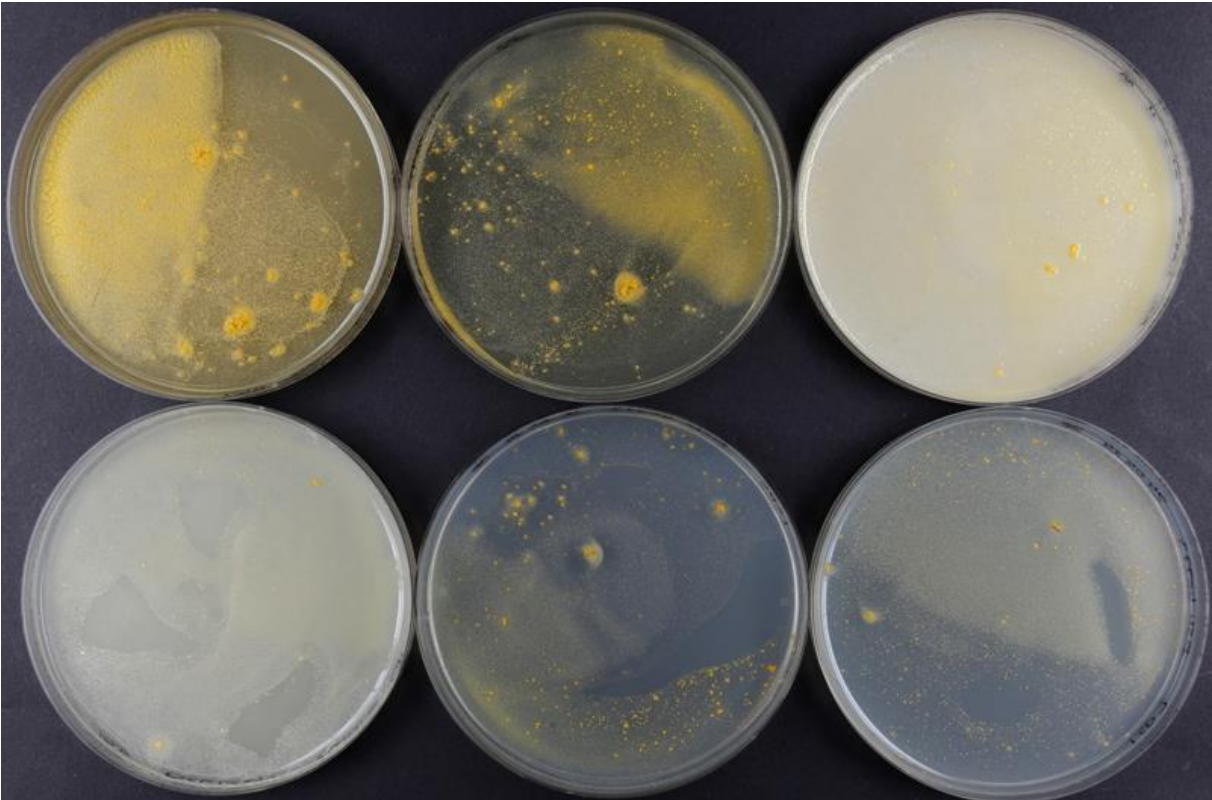
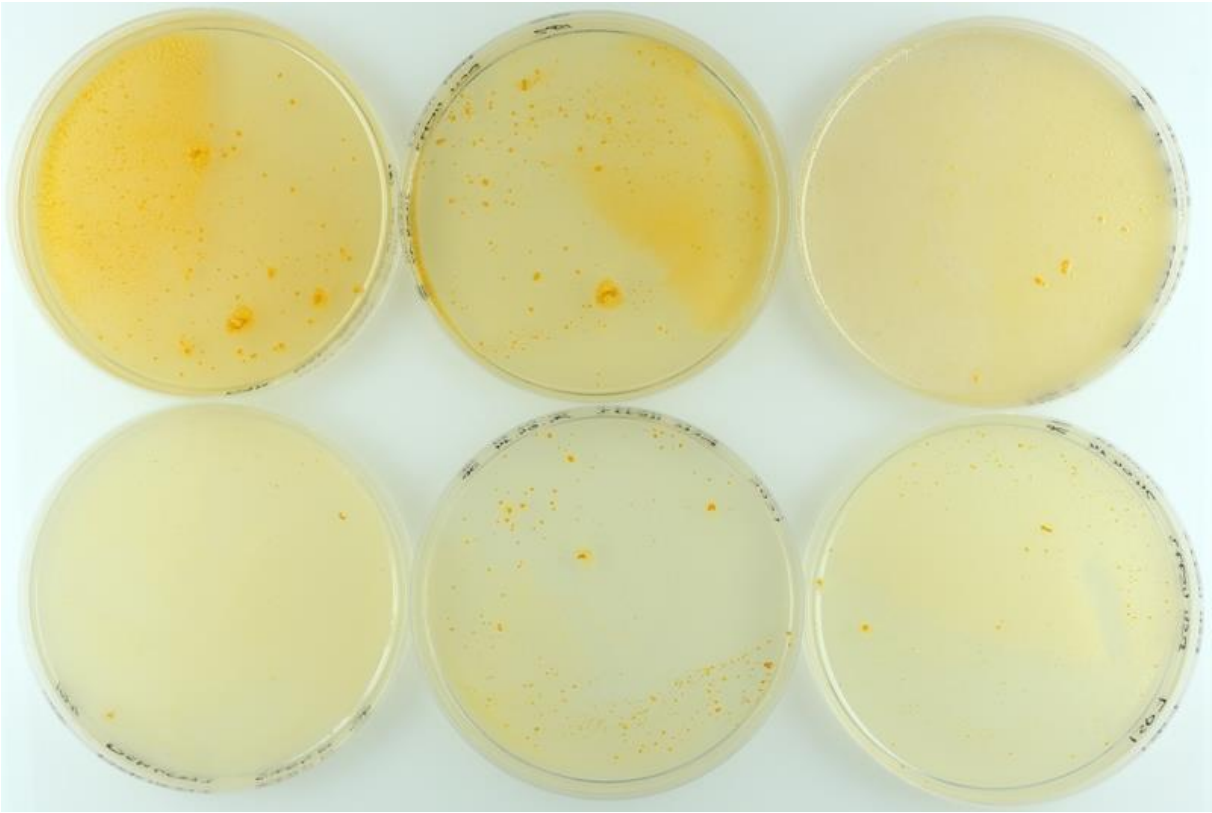
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 45773.

Apizym



Abbildung 2: Apizym-Teststreifen mit Keim DSM 45773.

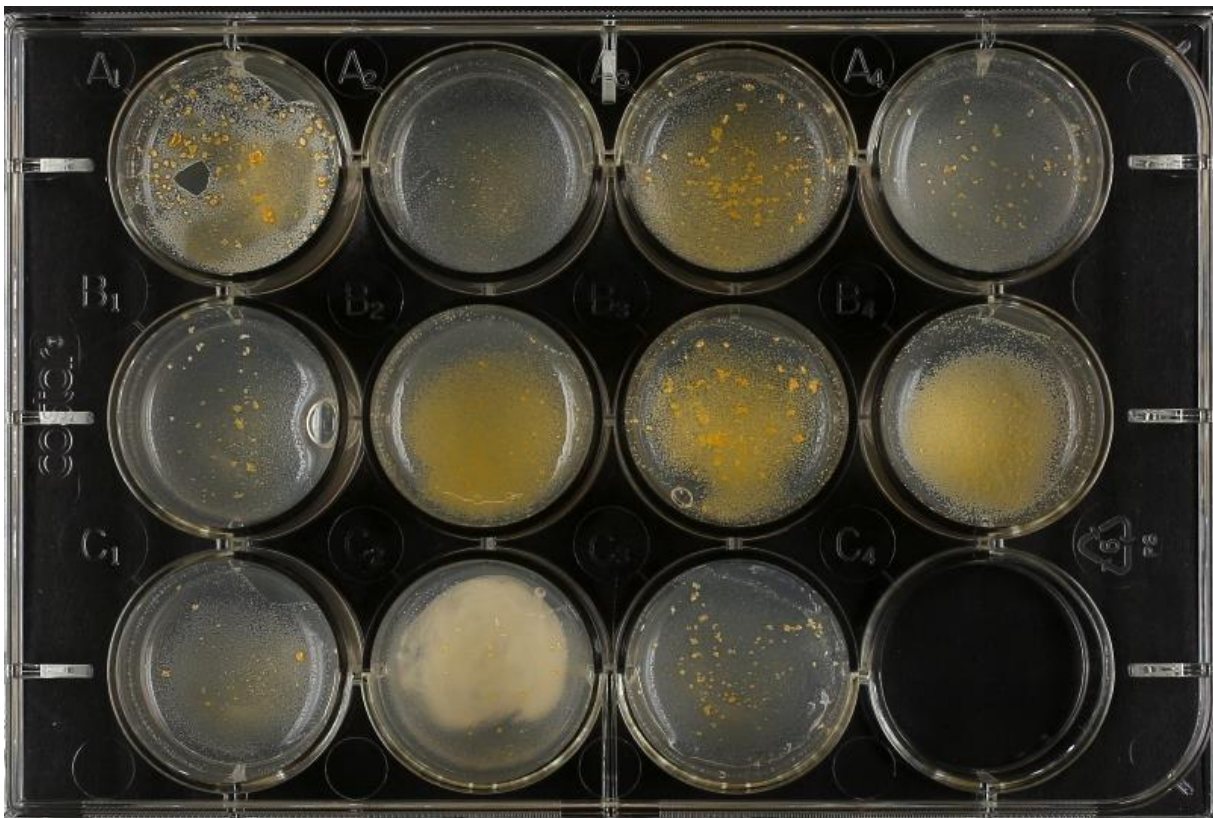
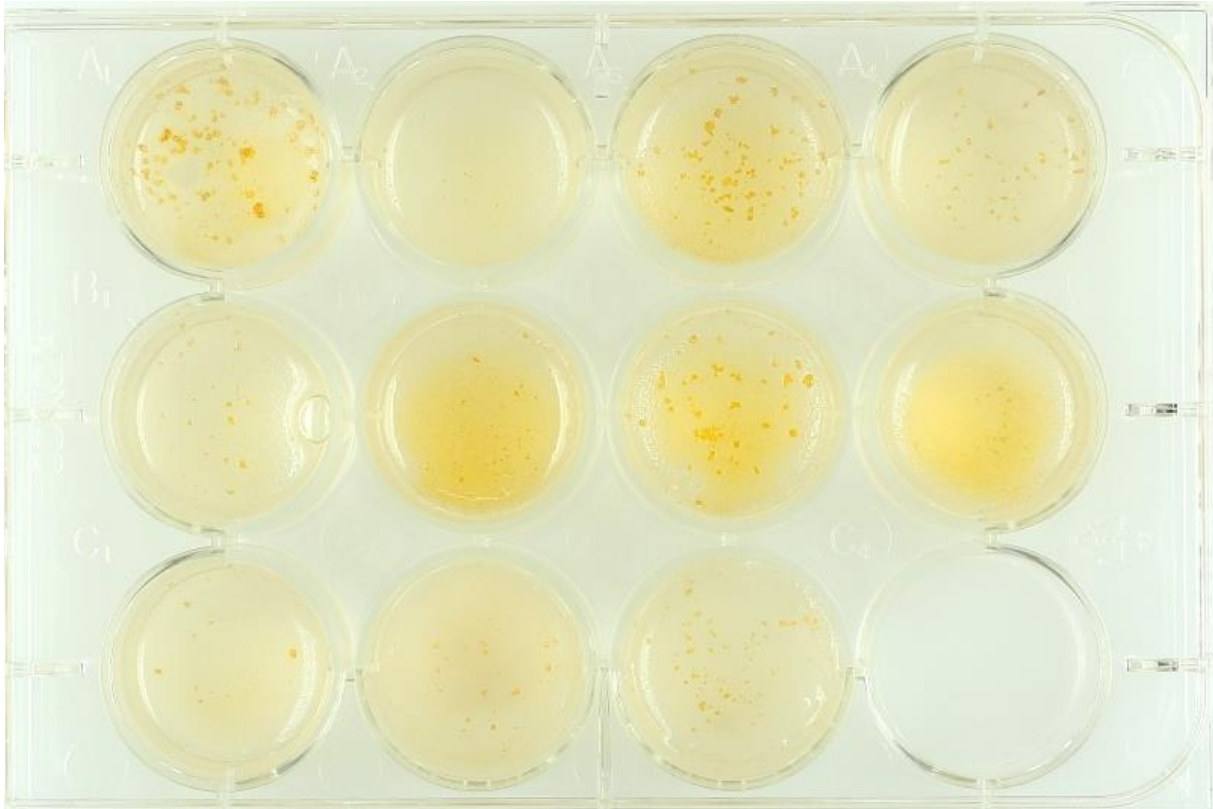
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

