

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

Strain		DSM 19813
Genus		<i>Herbiconiux</i>
Species		<i>solani</i>
Status		
Risk group		L1
Type strain		K134/01, LMG 24387, NBRC 106740
Reference		
Author		Behrendt, U., Schumann, P., Hamada, M., Suzuki, K., Spröer, C., Ulrich, A.
Title		Reclassification of <i>Leifsonia ginsengi</i> (Qiu et al. 2007) as <i>Herbiconiux ginsengi</i> gen. nov., comb. nov. and description of <i>Herbiconiux solani</i> sp. nov., an actinobacterium associated with the phyllosphere of <i>Solanum tuberosum</i> L.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 (Pt 5)
Page		1039-1047
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	lemon yellow (1012)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	lemon yellow (1012)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	decreased
Agar	ISP 4 - R	rape yellow (1021)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	decreased
Agar	ISP 5 - R	rape yellow (1021)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	/
Agar	ISP 6 - R	/
Agar	ISP 6 - A	/
Agar	ISP 6 - S	/
Agar	ISP 7 - G	decreased
Agar	ISP 7 - R	rape yellow (1021)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	lemon yellow (1012)

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Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	light ivory (1015)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	rape yellow (1021)
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	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	5
Api zym	Cystine arylamidase	2
Api zym	Trypsin	3
Api zym	Chymotrypsin	3
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	5
Api zym	beta galactosidase	4
Api zym	beta glucuronidase	5
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	1
Api zym	alpha mannosidase	0
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	-

Apicoryne



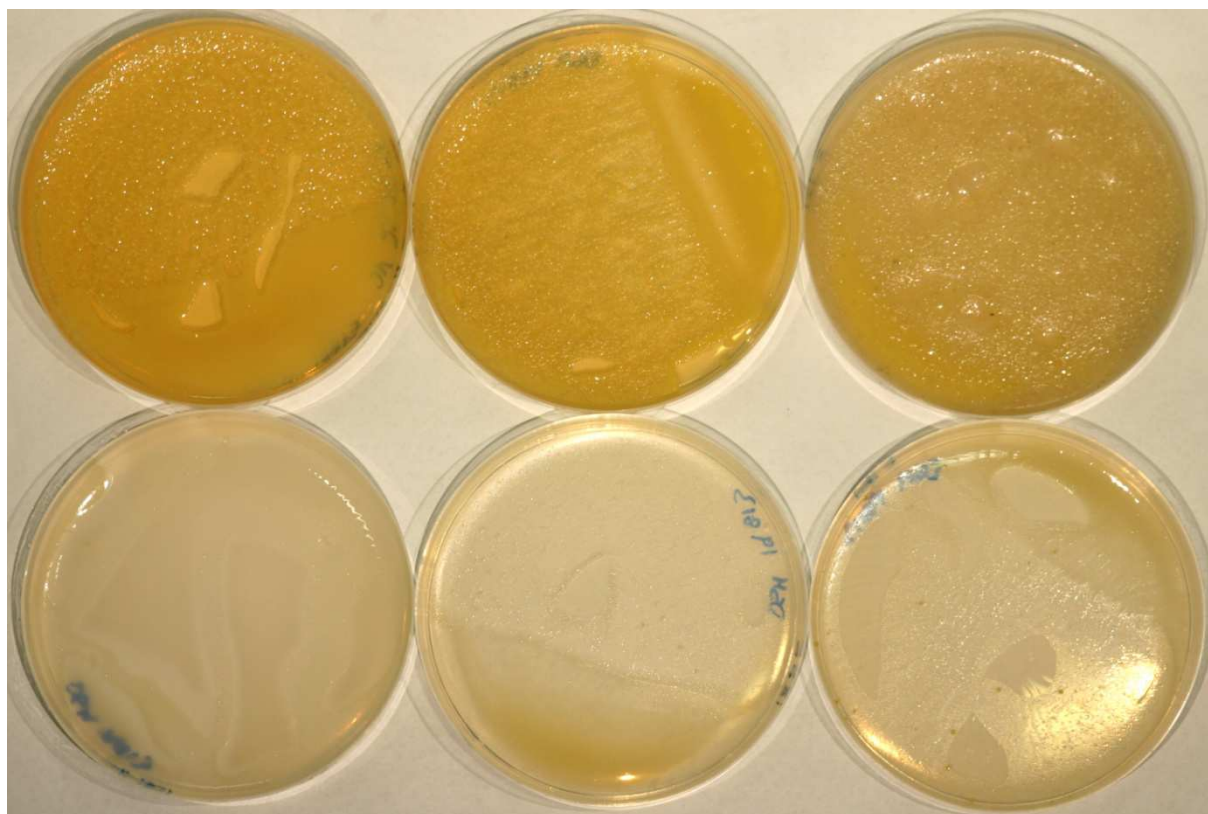
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 19813.

Apizym

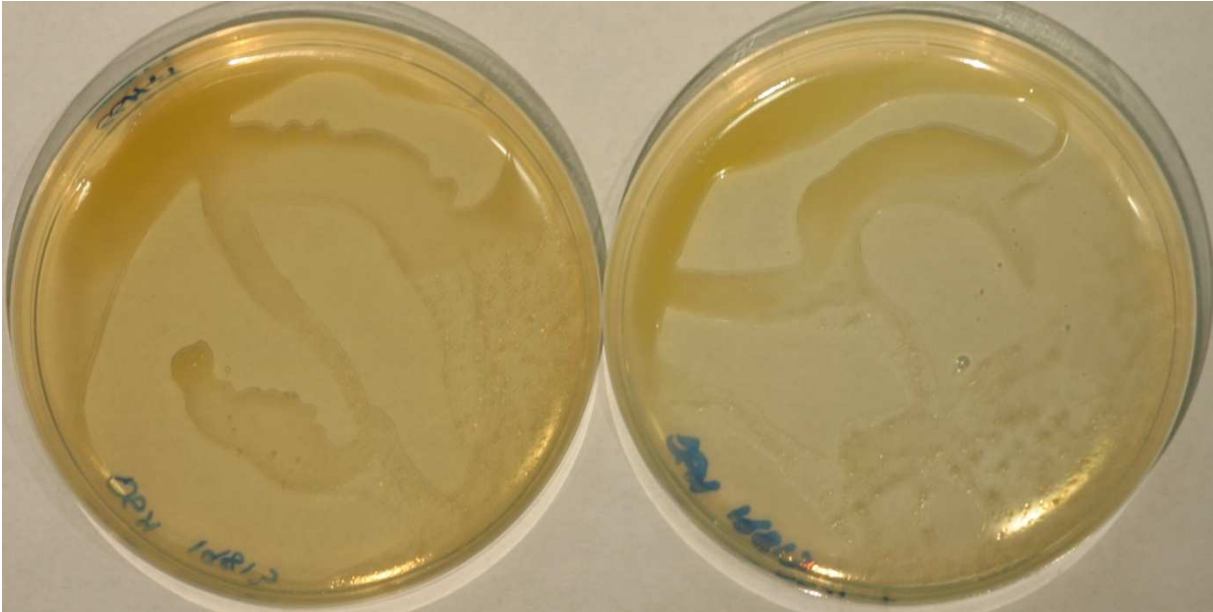


Abbildung 2: Apizym-Teststreifen mit Keim DSM 19813.

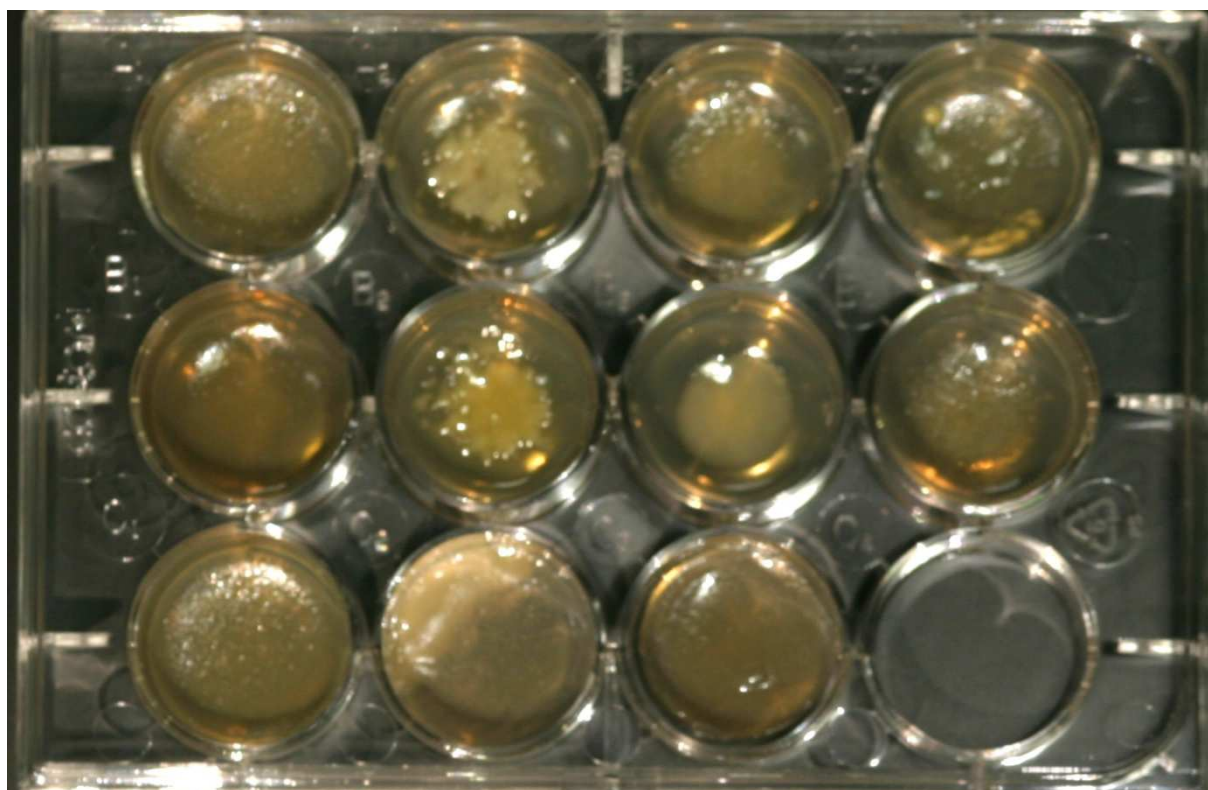
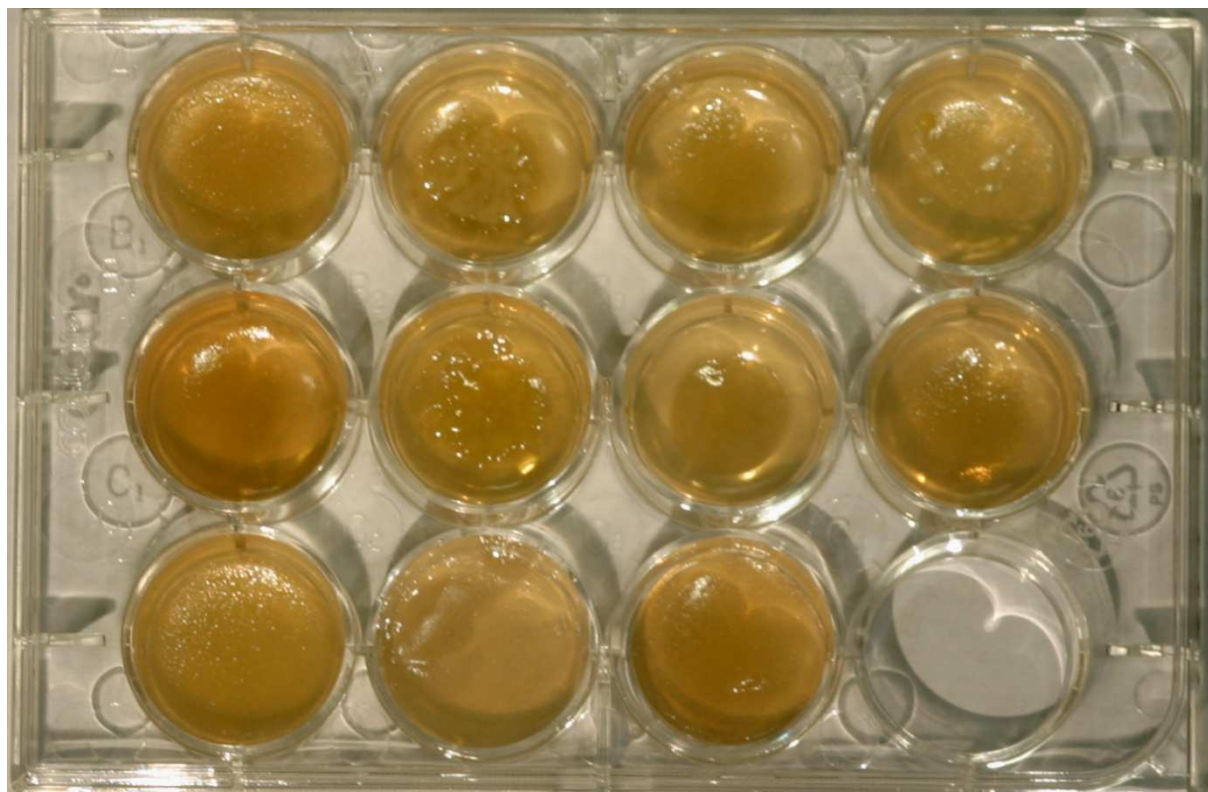
Plates (92, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

