

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

Strain		DSM 45652
Genus		<i>Herbidospora</i>
Species		<i>sakaeratensis</i>
Status		
Risk group		L1
Type strain		DMKUA 205, BCC 11662, NBRC 102641
Reference		
Author		Boondaeng, A., Suriyachadkun, C., Ishida, Y., Tamura, T., Tokuyama, S., Kitpreechavanich, V.
Title		<i>Herbidospora sakaeratensis</i> sp. nov., isolated from soil, and reclassification of <i>Streptosporangium claviforme</i> as a later synonym of <i>Herbidospora cretacea</i> .
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 (Pt 4)
Page		777-780
Year		2011
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Ochre yellow (1024)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	Sand yellow (1002)
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	n.d.
Agar	ISP 3 - A	Pure white (9010)
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	n.d.
Agar	ISP 4 - A	None
Agar	ISP 4 - S	Lemon yellow (1012)
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	Light ivory (1015)
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	Good
Agar	ISP 7 - R	Ochre yellow (1024)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	Sand yellow (1002)
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Sand yellow (1002) – ochre yellow

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

		(1024)
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	Sand yellow (1002)
Agar	suter without tyrosine - G	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	optimume	
sodim 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	4
Api zym	Esterase (C4)	4
Api zym	Esterase Lipase (C8)	4
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	1
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	0
Api zym	Trypsin	1
Api zym	Chymotrypsin	3
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta GLUCOSIDASE	5
Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	0

Api zym	alpha fucosidase	-
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		

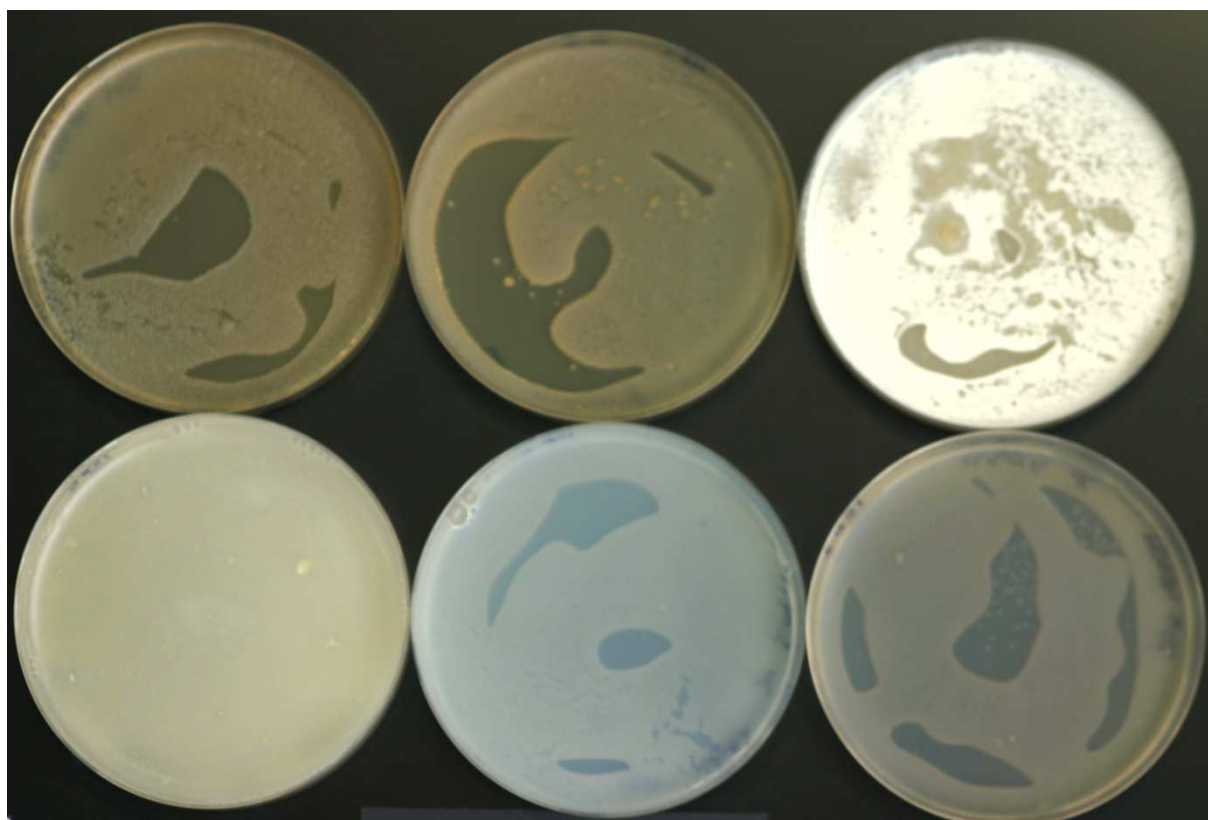
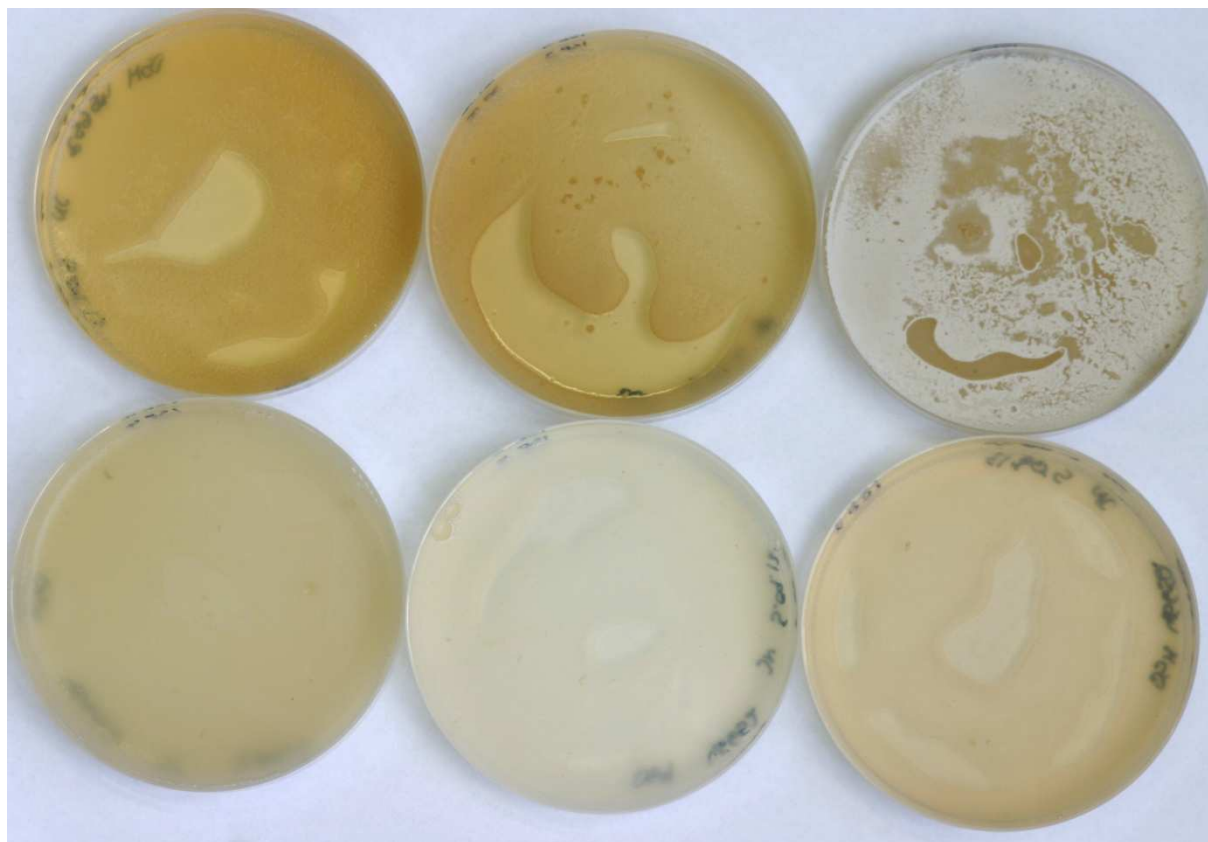
Apicoryne



Apizym



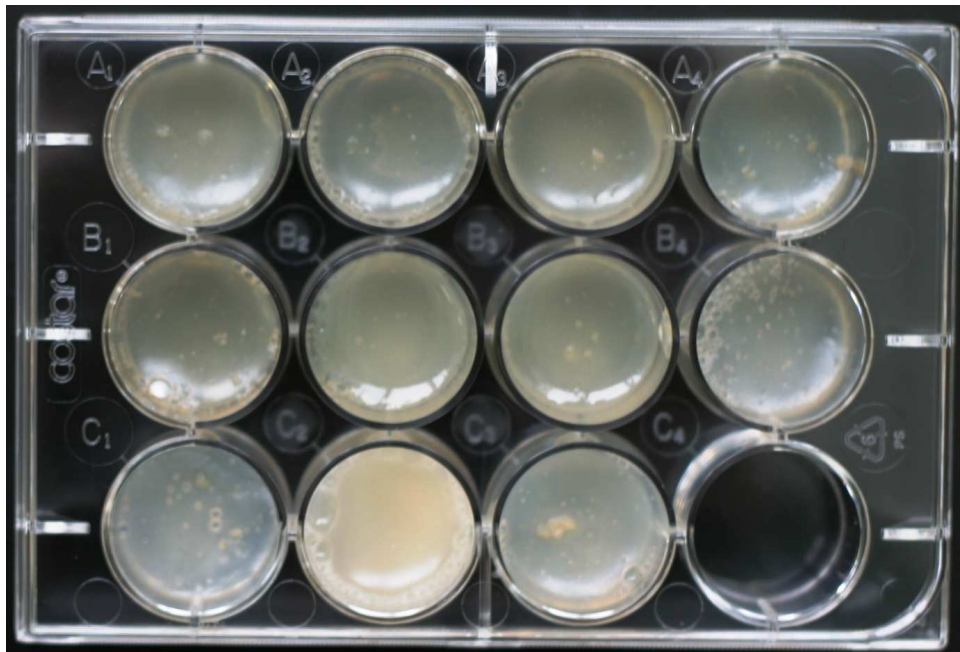
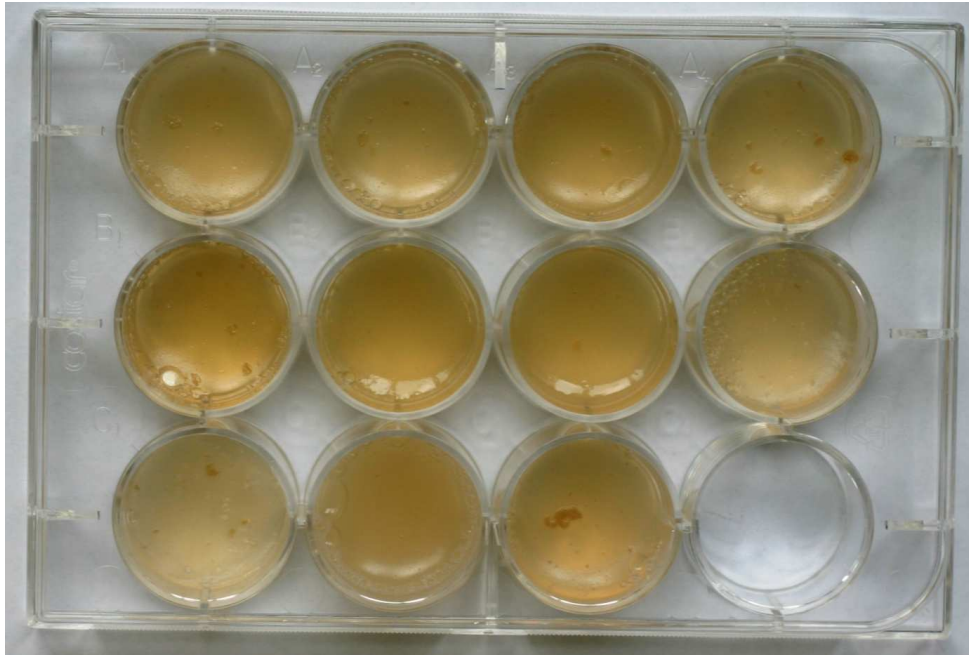
Plates (DSM 553, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

