

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

Strain		DSM 45457
Genus		<b><i>Saccharothrix</i></b>
Species		<b><i>hoggarensis</i></b>
Status		
Risk group		L1
Type strain		Sa181, CCUG 60214
Genbank accession numbers		16S rRNA gene: <a href="#">HQ399564</a>
Reference		
Author		Boubetra, D., Zitouni, A., Bouras, N., Mathieu, F., Lebrihi, A., Schumann, P., Spröer, C., Klenk, H. P., Sabaou, N.
Title		<i>Saccharothrix hoggarensis</i> sp. nov., an actinomycete isolated from Saharan soil
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>63</b> ( Pt 2 )
Page		549-53
Year		2013
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	sparse
Agar	ISP 3 - R	brown beige (1011)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	sand yellow (1002)
Agar	ISP 4 - G	good
Agar	ISP 4 - R	ivory (1014)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	ivory (1014)
Agar	ISP 5 - G	good
Agar	ISP 5 - R	sand yellow (1002)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	good
Agar	ISP 6 - R	ivory (1014)
Agar	ISP 6 - A	light ivory (1015), sparse
Agar	ISP 6 - S	none
Agar	ISP 7 - G	sparse
Agar	ISP 7 - R	oyster white (1013)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse

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Agar	suter with tyrosine - R	ivory (1014)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
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)	2
Api zym	Lipase (C14)	3
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	4
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	1
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	3
Api zym	N-acetyl-beta-glucoseamidase	4
Api zym	alpha mannosidase	1

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 45457.

### Apizym



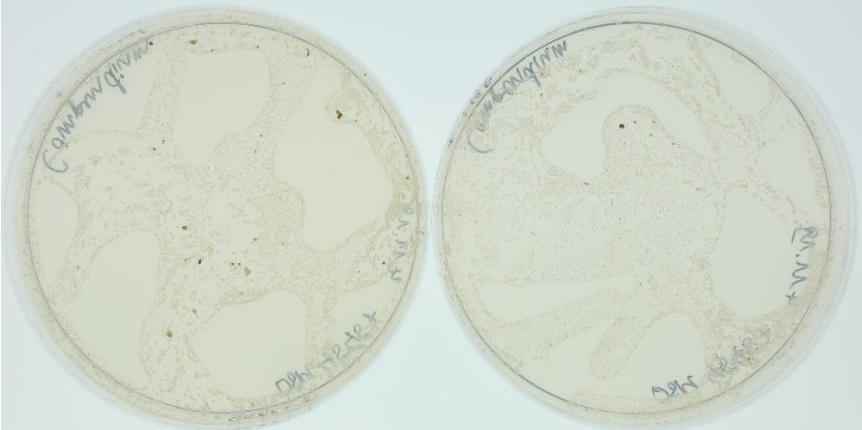
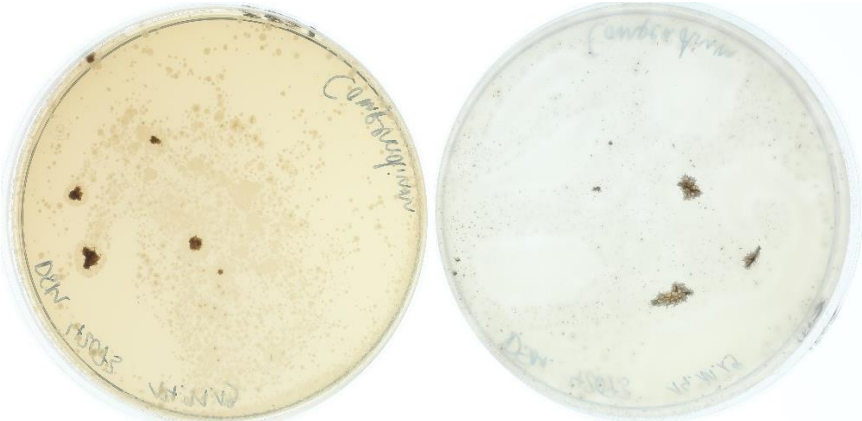
Abbildung 2: Apizym-Teststreifen mit Keim DSM 45457.

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

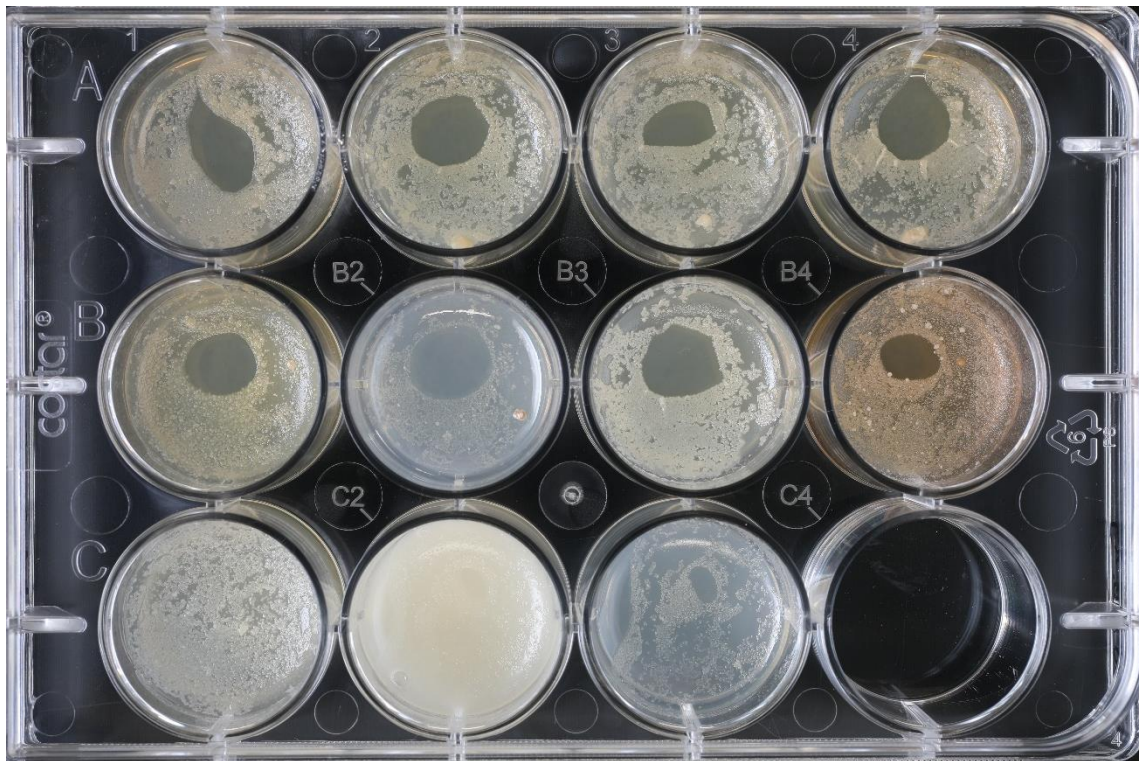
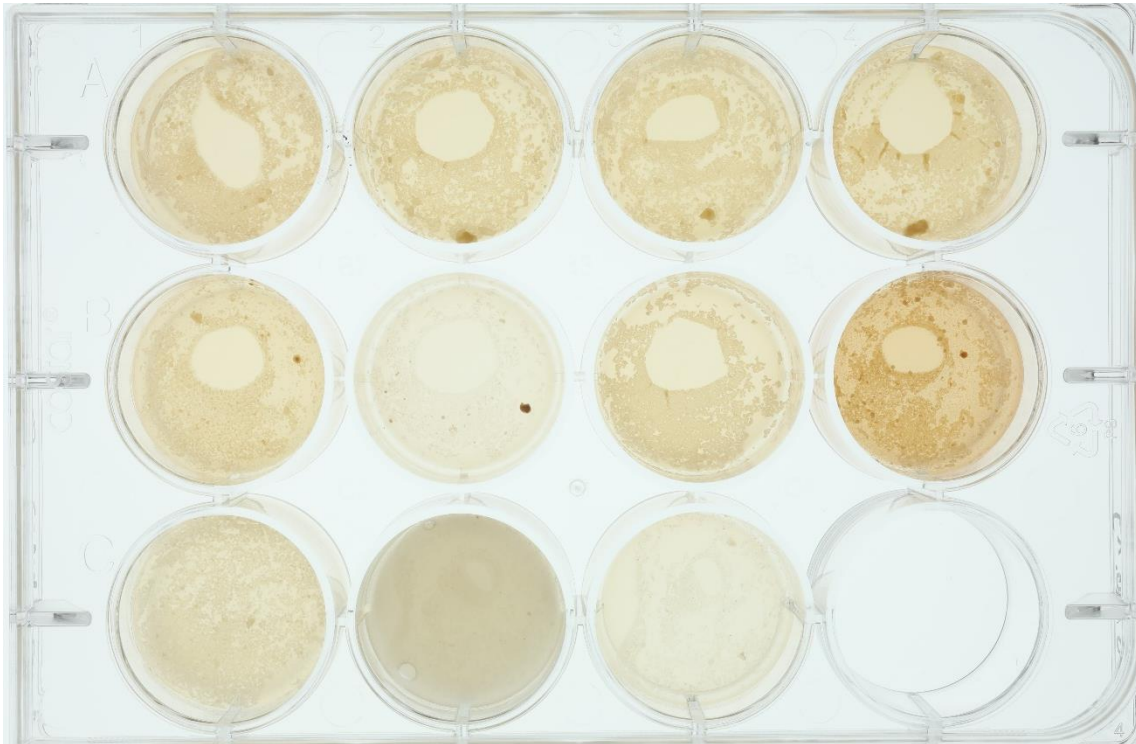




(ISP6, ISP7, SSM+T, SSM-T)



**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%)**

