Strain		DSM 46834
Genus		***Geodermatophilus***
Species		***aquaeductus***
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		BMG801, CECT 8822
Genbank accession numbers		16S rRNA gene: LN626272
Reference		
Author		Hezbri K, Ghodhbane-Gtari F, Del Carmen Montero-Calasanz M, Sghaier H, Rohde M, Sproer C, Schumann P, Klenk HP, Gtari M.
Title		*Geodermatophilus aquaeductus* sp. nov., isolated from the ruins of Hadrian's aqueduct
Journal		*Antonie Van Leeuwenhoek*
Volume		**108**
Page		41-50
Year		2015
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	jet black (9005)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	sparse- good
Agar	ISP 3 - R	traffic black (9017)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	sparse- good
Agar	ISP 4 - R	traffic black (9017)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	sparse
Agar	ISP 5 - R	grey olive (6006)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse- good
Agar	ISP 6 - R	traffic black (9017)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	sparse
Agar	ISP 7 - R	grey olive (6006)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none

Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	yellow olive (6014)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	yellow olive (6014)
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		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 alcaline	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	2
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	3
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	2
Api zym	beta glucosidase	2
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	-

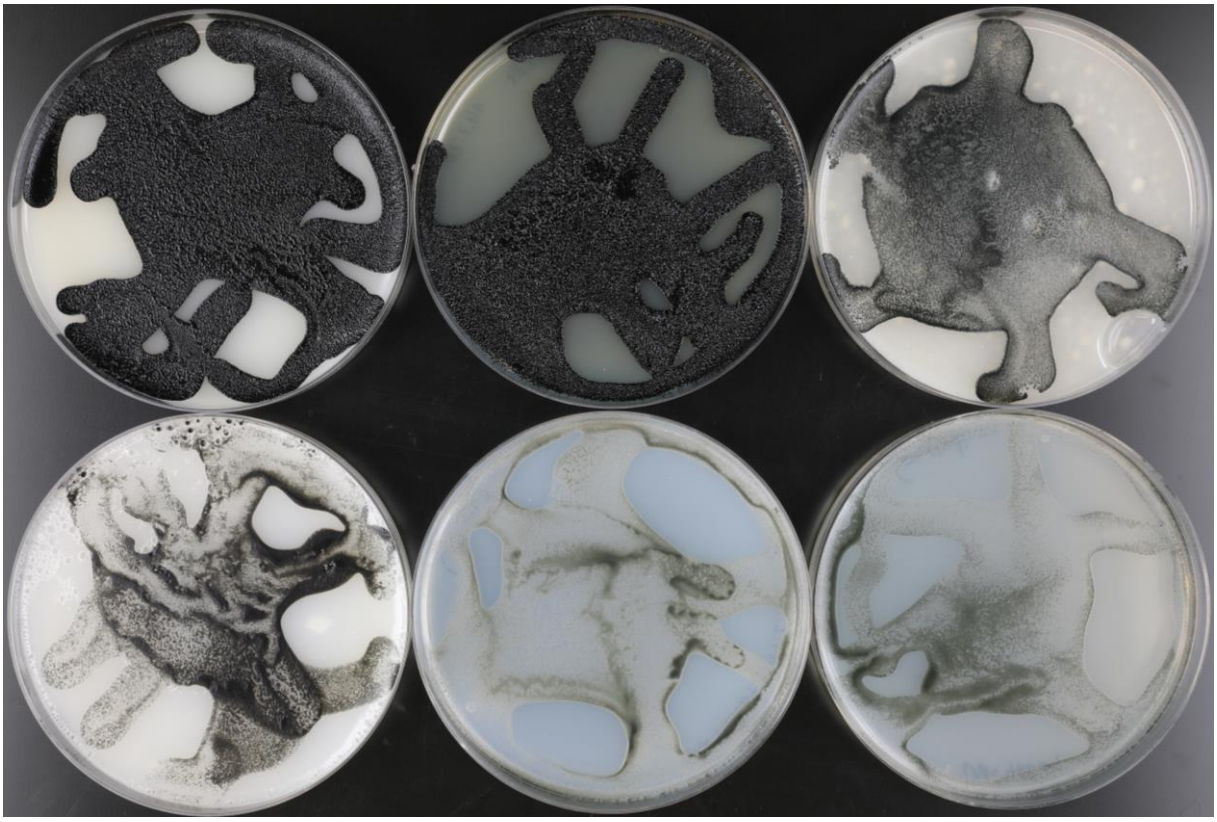
Apicoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 46834.

Apizym

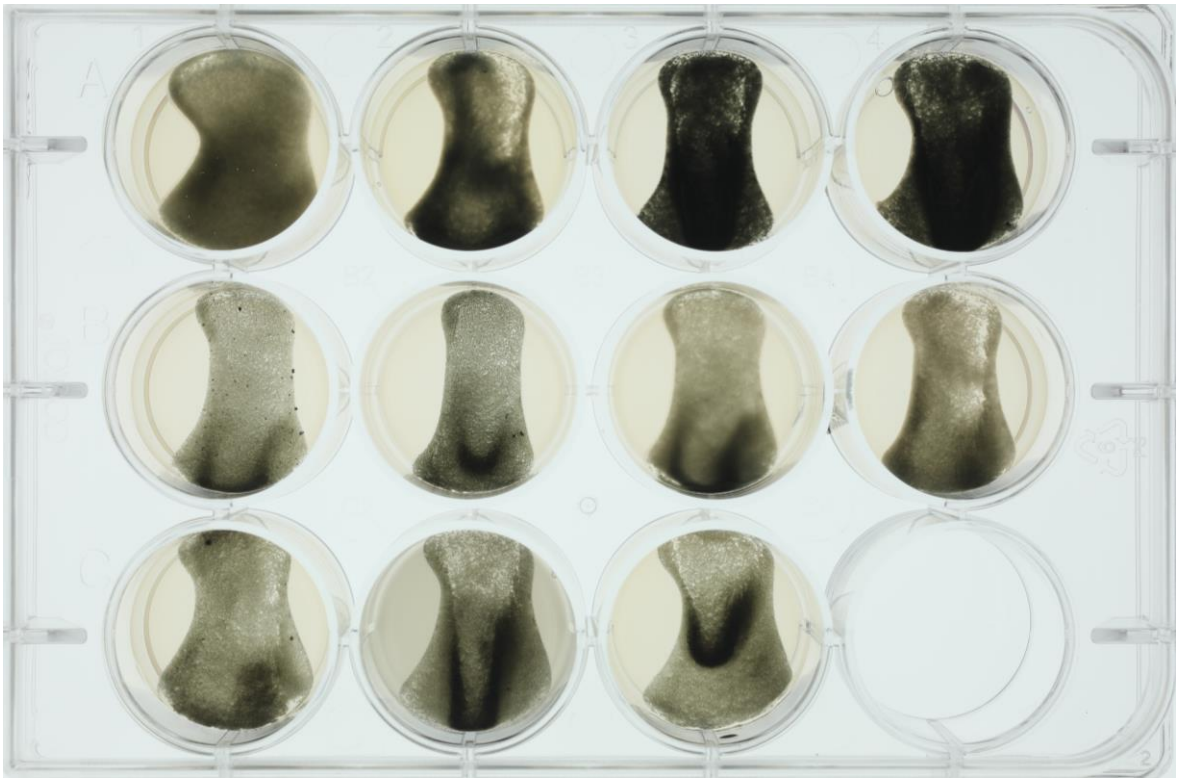
Abbildung 2: Apizym-Teststreifen mit Keim DSM 46834.

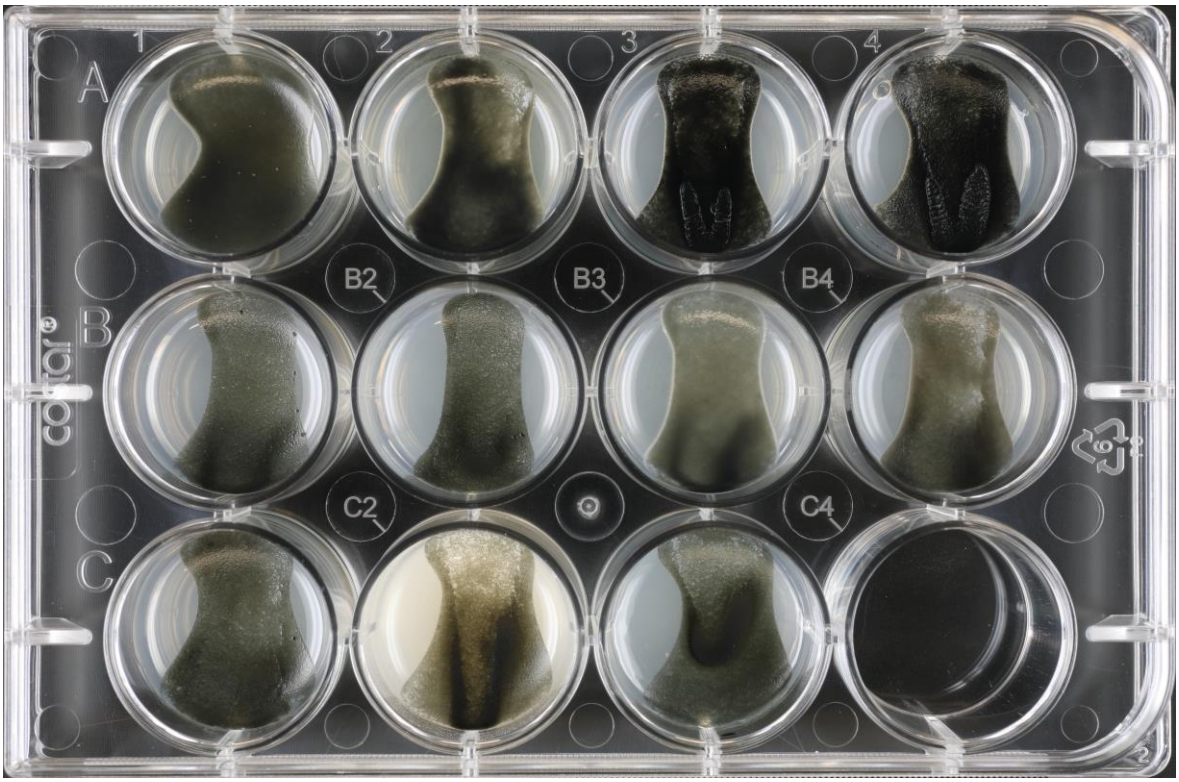
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)