

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 46670
Genus		<i>Kibdelosporangium</i>
Species		<i>banguiense</i>
Status		
Risk group		L1
Type strain		F-240,109, LMG 28181
Genbank accession numbers		16S rRNA gene: HG326647
Reference		
Author		Pascual J, Gonzalez I, Estevez M, Benito P, Trujillo ME, Genilloud O.
Title		Description of <i>Kibdelosporangium banguiense</i> sp. nov., a novel actinomycete isolated from soil of the forest of Pama, on the plateau of Bangui, Central African Republic
Journal		<i>Antonie Van Leeuwenhoek</i>
Volume		109
Page		685-695
Year		2016
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	beige (1001)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	ivory (1014)
Agar	ISP 3 - A	pure white (9010), sparse
Agar	ISP 3 - S	sand yellow (1002)
Agar	ISP 4 - G	good
Agar	ISP 4 - R	n.d.
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	grey beige (1019), black brown (8022)
Agar	ISP 5 - A	traffic white (9016), sparse
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	sand yellow (1002)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	graphite grey (7024), grey beige (1019)
Agar	ISP 7 - A	traffic white (9016), sparse

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Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	brown beige (1011)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	beige (1001)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	light ivory (1015)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	sand yellow (1002)
	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 alkaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	1
Api zym	Trypsin	3
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	4
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	3
Api zym	beta glucosidase	4

Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	3
Api zym	alpha fucosidase	2
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



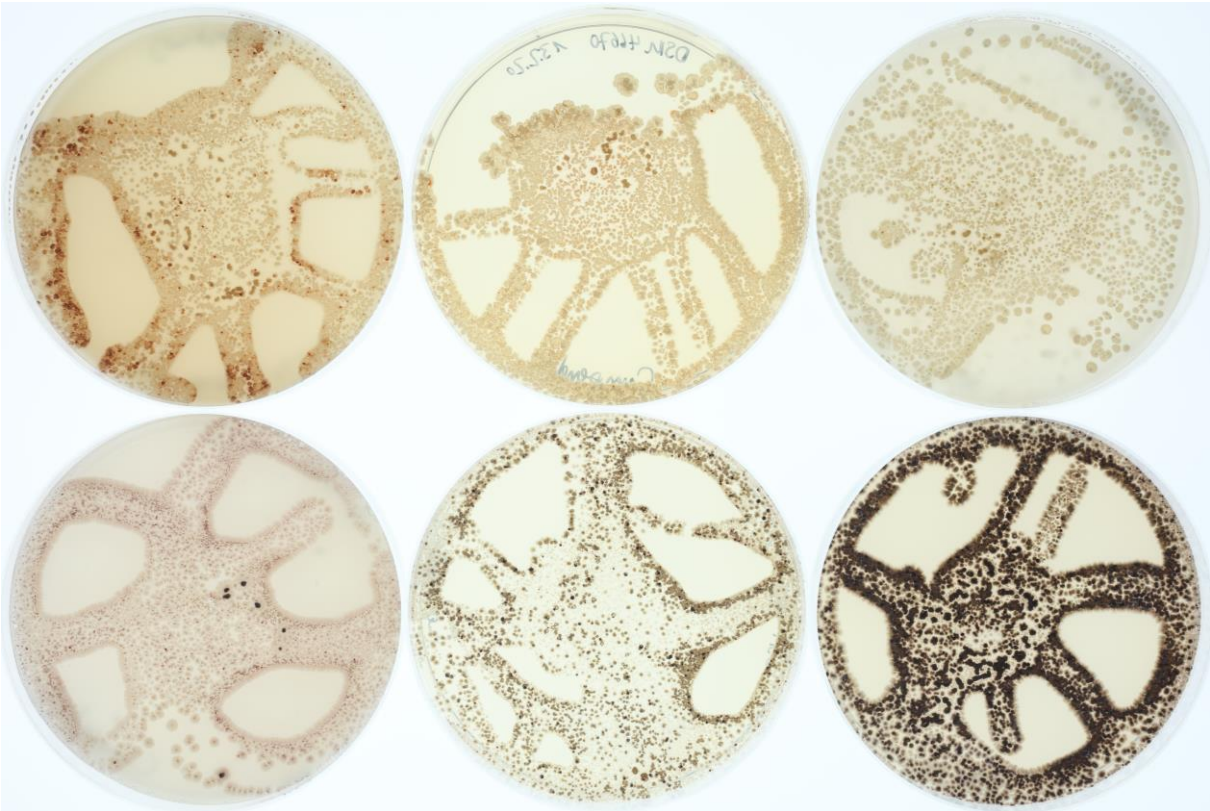
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 46670.

Apizym

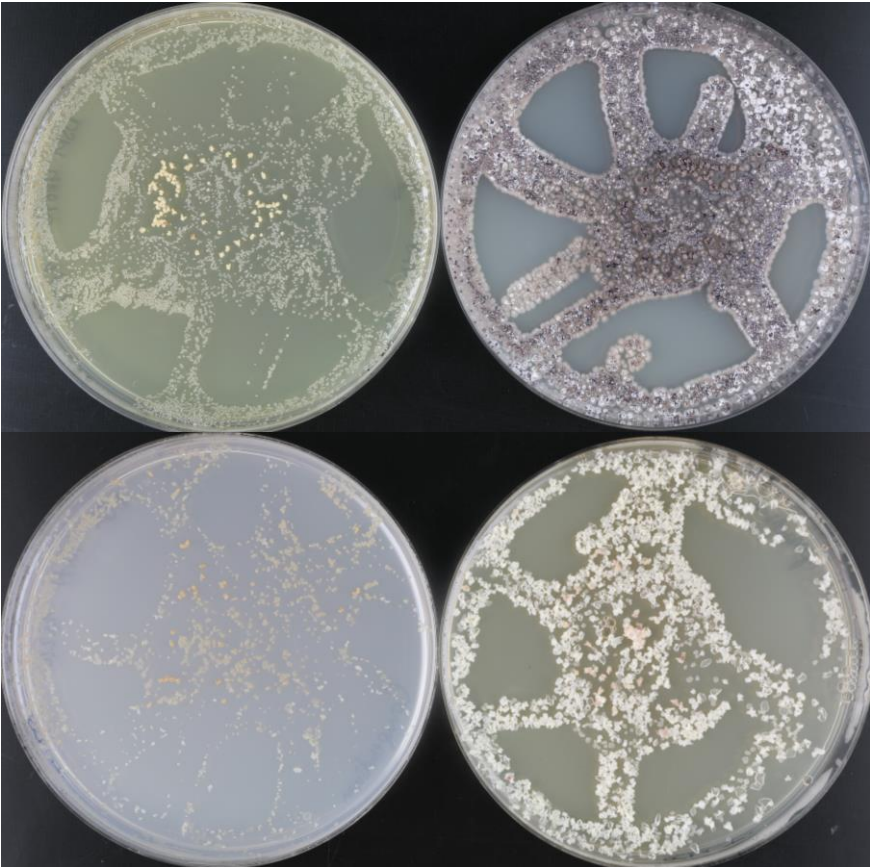


Abbildung 2: Apizym-Teststreifen mit Keim DSM 46670.

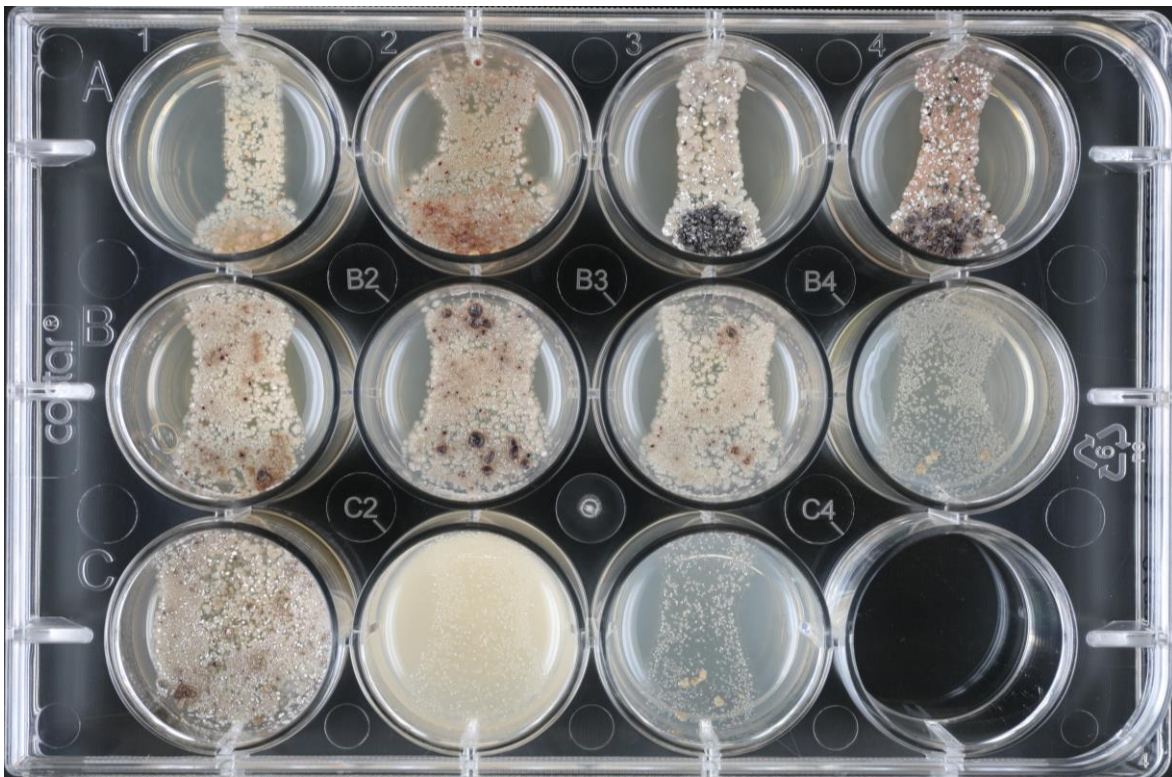
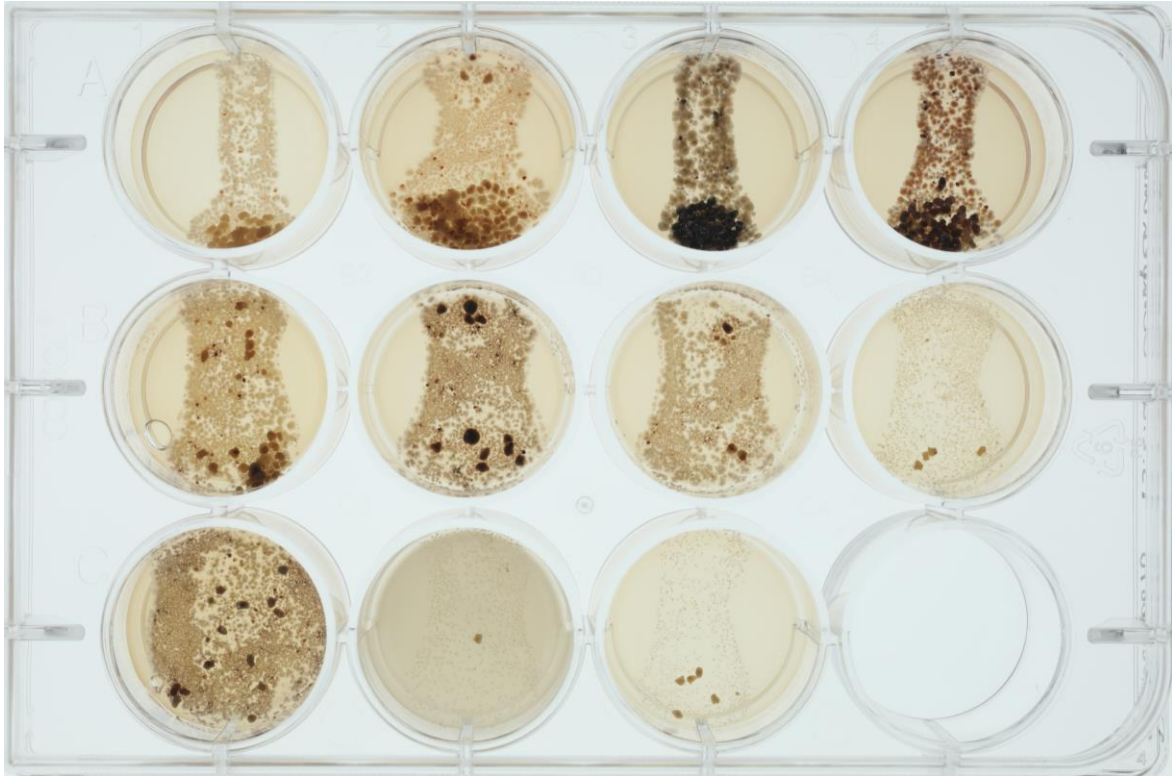
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

