

Strain		DSM44131
Genus		<i>Actinosynnema</i>
Species		<i>pretiosum subsp. auranticum</i>
Status		valid
Risk group		1
Type strain		RTCI C-14482; ATCC 31309,FERM P-4130,IFO 13725,JCM 7343,NBRC 13725
Genbank accession numbers		
Reference		
Author		Hasegawa, T., Tanida, S., Hatsano, K., Higashide, E., Yoneda, M.
Title		Motile actinomycetes: <i>Actinosynnema pretiosum</i> subsp. <i>pretiosum</i> sp. nov., subsp. nov. and <i>Actinosynnema pretiosum</i> subsp. <i>auranticum</i> subsp. nov.
Journal		<i>Int.J.Syst.Bacteriol.</i>
Volume		33
Page		314-320
Year		1983
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	daffodil yellow (1007)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	daffodil yellow (1007)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	daffodil yellow (1007), yellow orange (2000)
Agar	ISP 3 - A	cream (9001), sparse
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	daffodil yellow (1007)
Agar	ISP 4 - A	cream (9001), sparse
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	daffodil yellow (1007), yellow orange (2000)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	daffodil yellow (1007)
Agar	ISP 6 - A	none

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Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	daffodil yellow (1007), yellow orange (2000)
Agar	ISP 7 - A	cream (9001), sparse
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	ochre brown (8001), mahogany brown (8016)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	ochre brown (8001)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	ochre brown (8001)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	ochre brown (8001),
	Sporechains/Sporangia	
Physiology		
Melanin		0 (- - + +)
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		2,5% (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)	3
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	0
Api zym	Trypsin	2
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	4

Api zym	Naphtol-AS-BI-phosphohydrolase	3
Api zym	alpha galactosidase	5
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4
Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	5
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



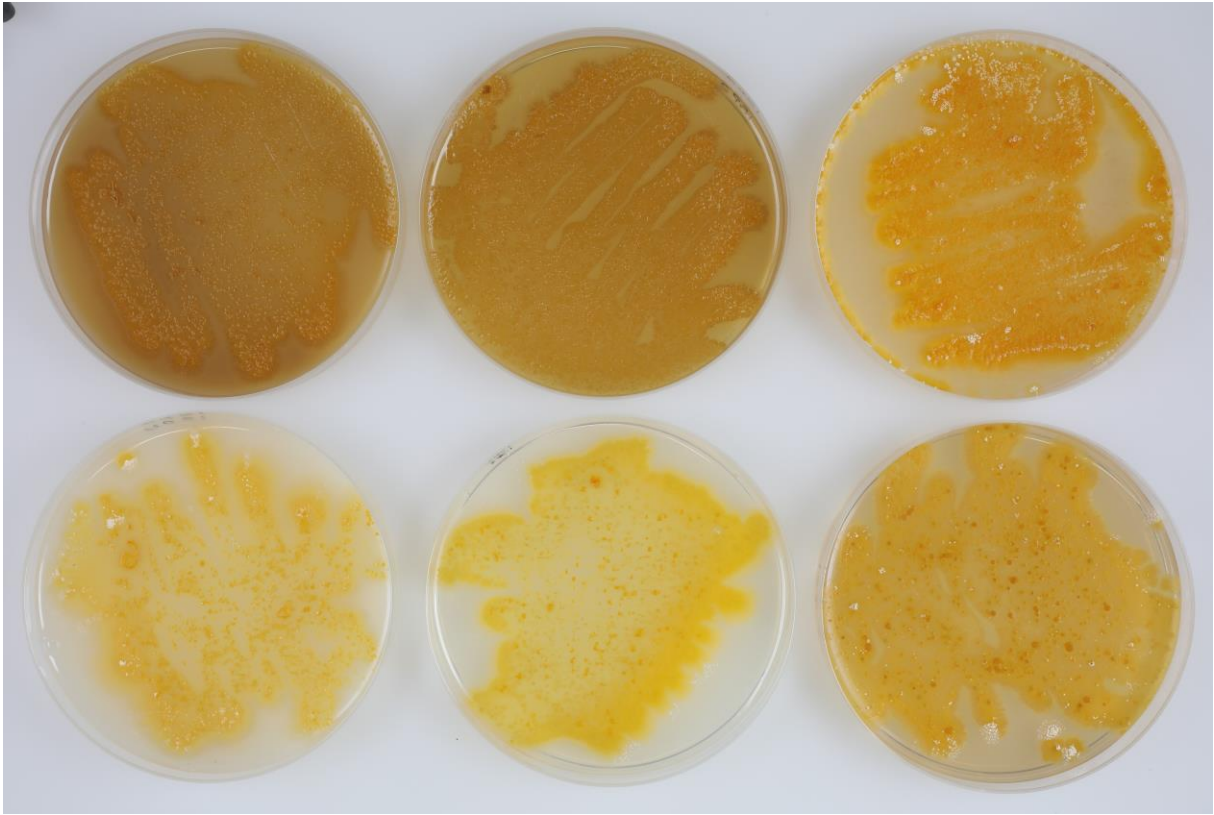
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

Apizym

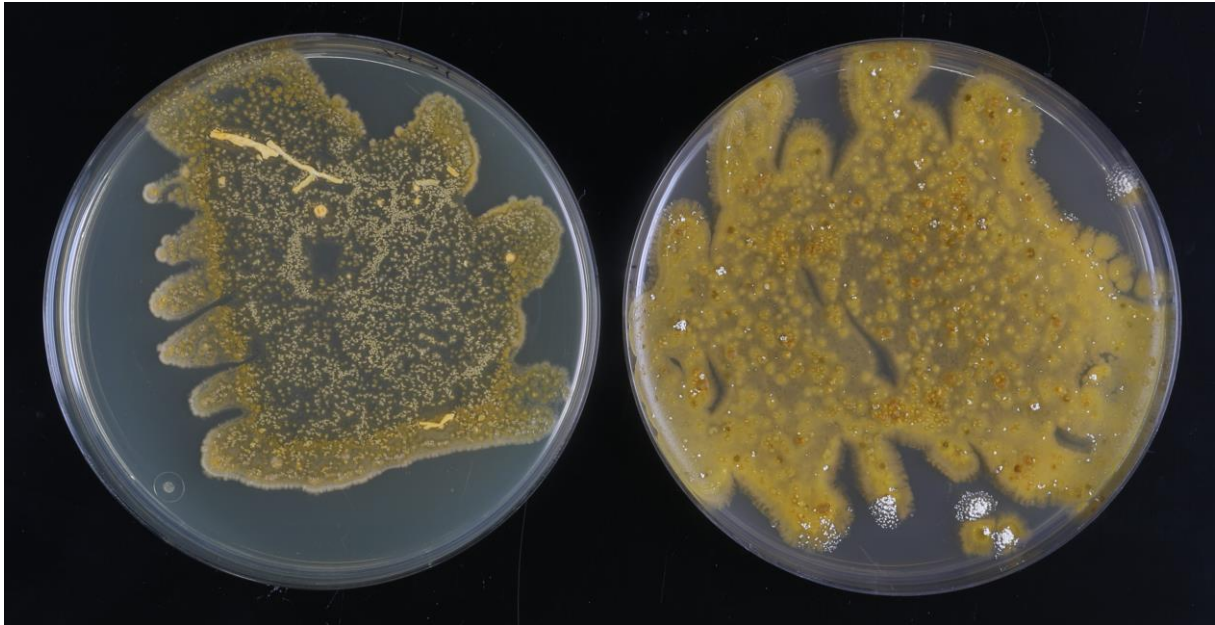


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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



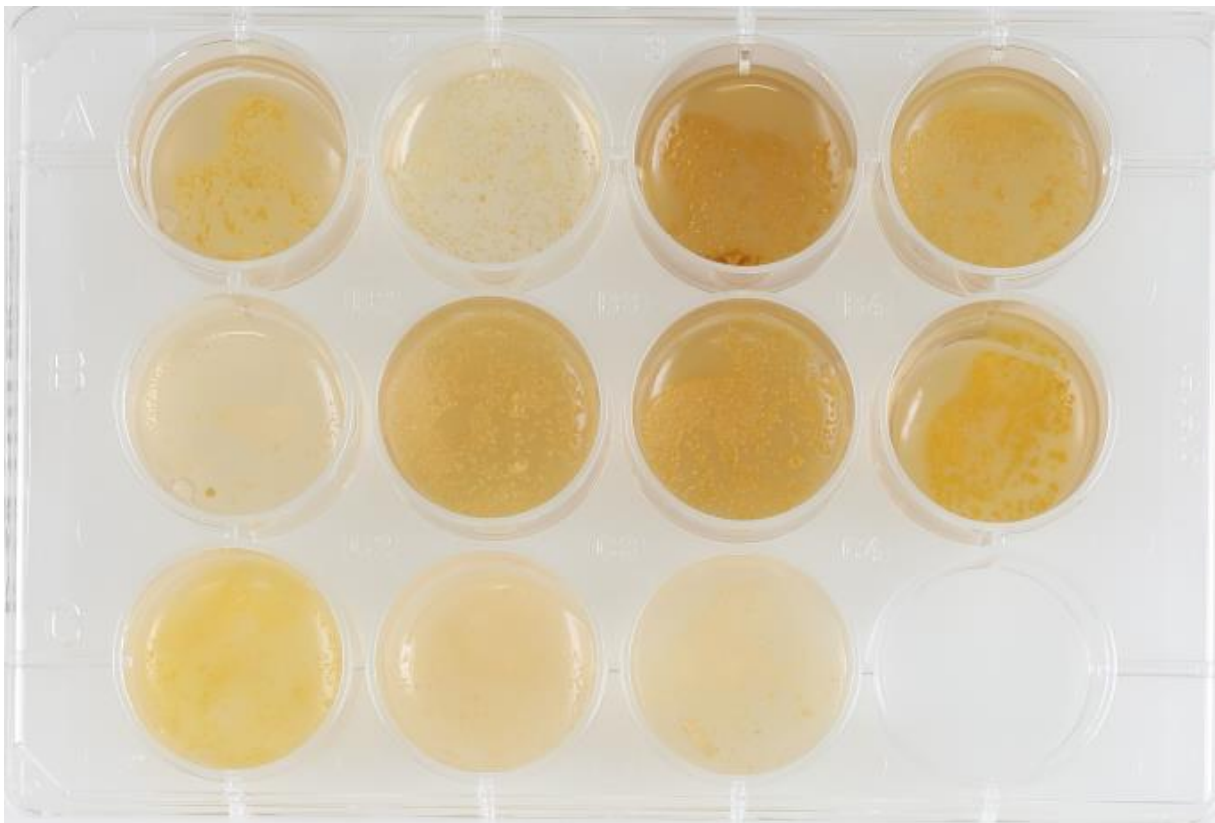
(ISP6, ISP7)



(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%)**

