

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 40809
Genus		<i>Streptomyces</i>
Species		<i>fradiae</i>
Status		valid
Risk group		1
Type strain		no
Other collection no. or WDCM no.:		ATCC 14443
Genbank accession numbers		16S rRNA gene: AB184134
Reference		
Author		Skerman VBD, McGowan V, Sneath PHA.
Title		Approved lists of bacterial names.
Journal		<i>Int J Syst Bacteriol</i>
Volume		30
Page		225-420
Year		1980
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	sand yellow (1002), ocher brown (8001)
Agar	ISP 2 - aerial mycelium/A	sparse, traffic white (9016)
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	sand yellow (1002)
Agar	ISP 3 - A	good, signal white (9003), beige red (3012)
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	sand yellow (1002)
Agar	ISP 4 - A	sparse, traffic white (9016), light pink (3015)
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	sand yellow (1002), ivory (1002)
Agar	ISP 5 - A	sparse, signal white(9003), light pink (3015)
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	beige (1001), brown beige (1011)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	brown beige (1011)
Agar	ISP 7 - G	good
Agar	ISP 7 - R	sand yellow (1002)

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Agar	ISP 7 - A	sparse, signal white(9003)
Agar	ISP 7 - S	sand yellow (1002)
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	sand yellow (1002), brown beige (1011)
Agar	suter with tyrosine - A	sparse, traffic white (9016)
Agar	suter with tyrosine - S	ochre yellow (1024)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	ivory (1014), sand yellow (1002)
Agar	suter without tyrosine - A	sparse, traffic white (9016)
Agar	suter without tyrosine - S	ivory (1014)
	Sporechains/Sporangia	
Physiology		
Melanin		+++ no
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)	1
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	2
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	1
Api zym	Trypsin	3
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	5
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	5
Api zym	beta glucosidase	3
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



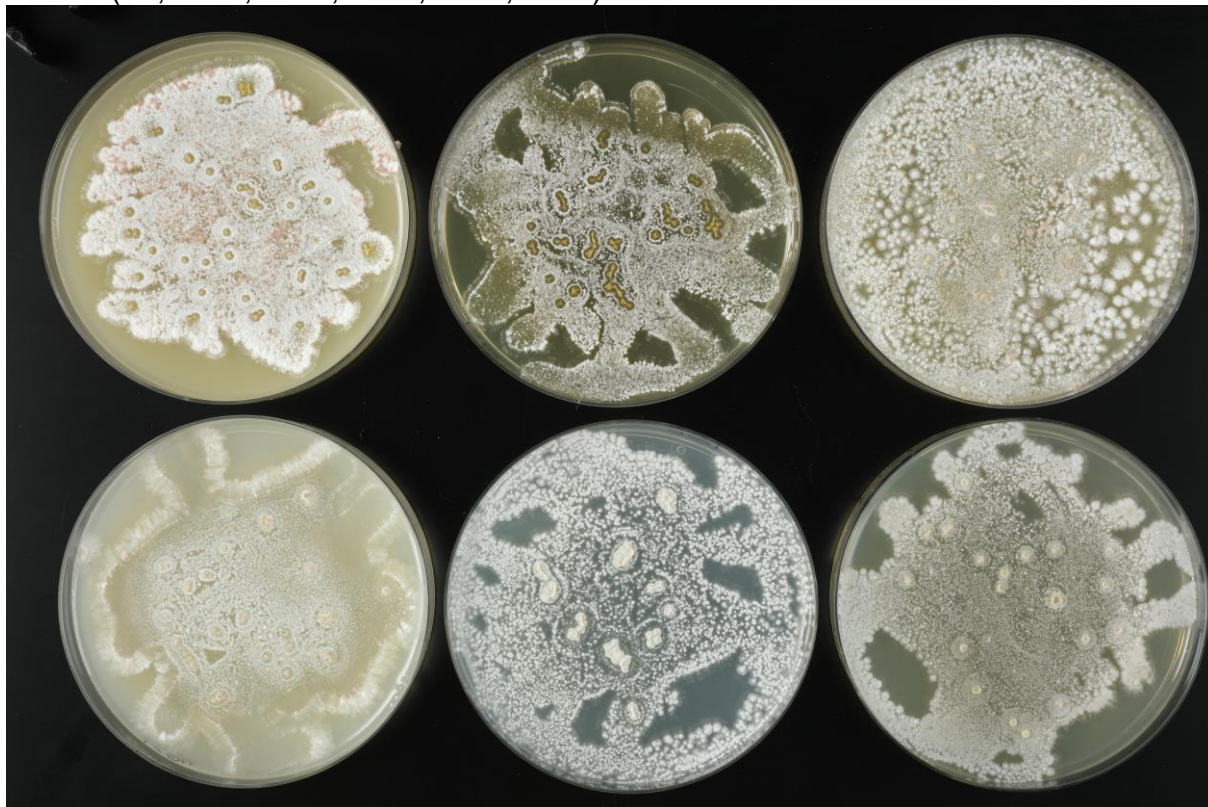
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM40809.

Apizym

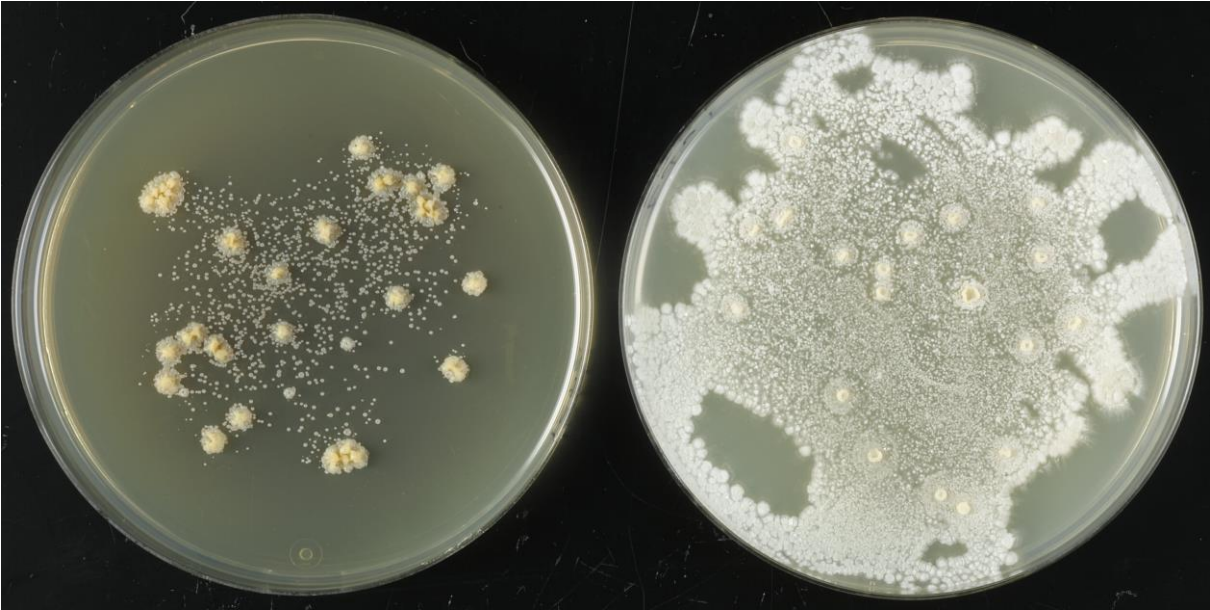


Abbildung 2: Apizym-Teststreifen mit Keim DSM40809.

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



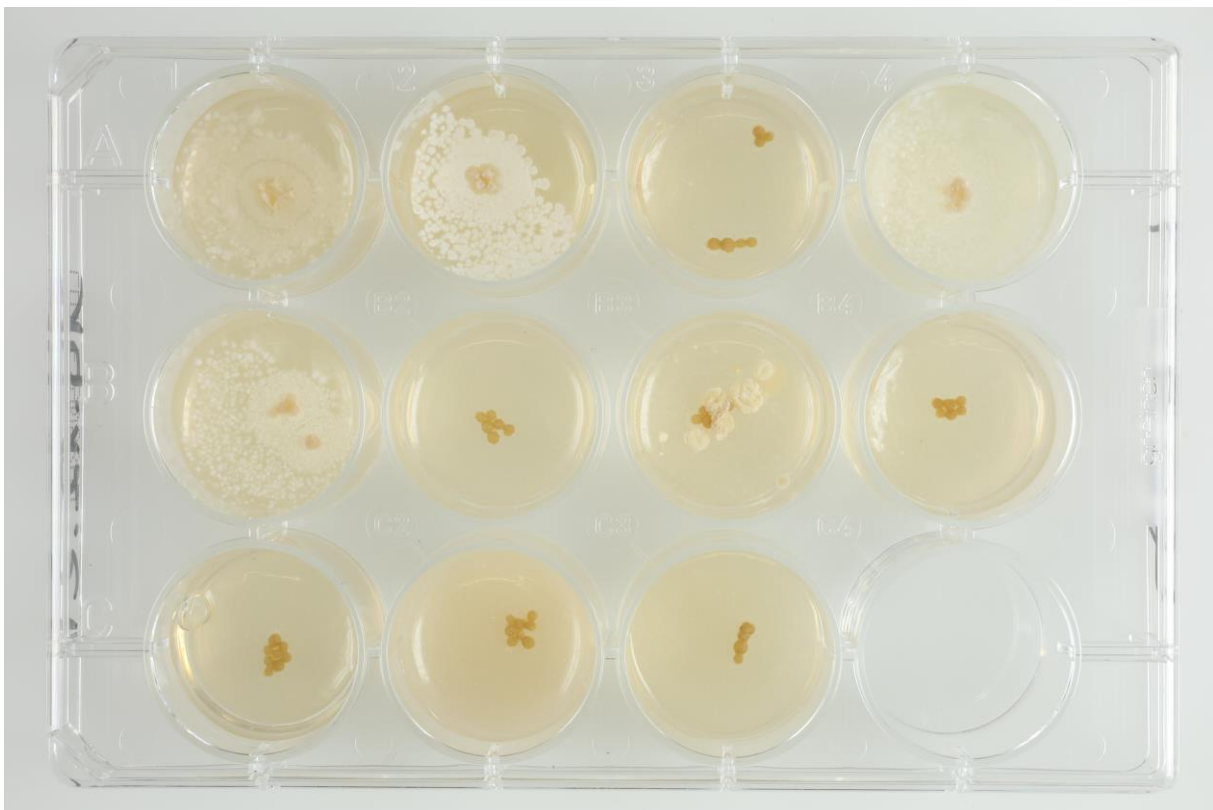
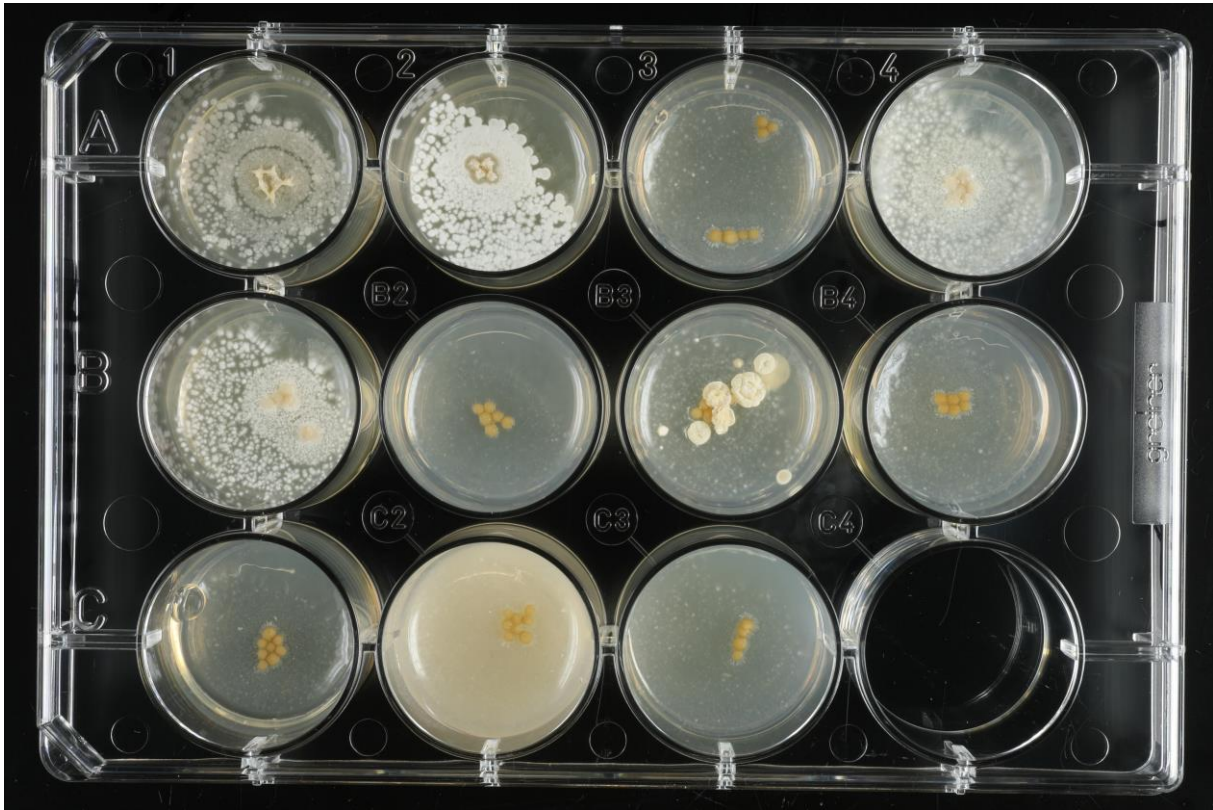
(ISP6, ISP7)



(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%)

