

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

Strain		DSM 929
Genus		<i>Streptomyces</i>
Species		<i>platensis</i>
Status		valid
Risk group		1
Type strain		no
Other collection		NRRL 8035
Genbank accession numbers		16S rRNA gene: AB122745
Reference (Patent)		DeBoer, C., Bannister, B. Process for producing the antibiotic U-44,590. U.S. Pat. 3,907,643
Author		Skerman VBD, McGowan V, Sneath PHA.
Title		Approved lists of bacterial names.
Journal		Int J Syst Bacteriol
Volume		30
Page		225-420
Year		1980
Morphology		
Agar	ISP 2 - growth/G	sparse
Agar	ISP 2 - colony color/R	sand yellow (1002)
Agar	ISP 2 - aerial mycelium/A	sparse, signal white (9003), slate grey (7015)
Agar	ISP 2 - soluble pigment/S	sand yellow (1002)
Agar	ISP 3 - G	good
Agar	ISP 3 - R	ivory (1014)
Agar	ISP 3 - A	sparse, signal white (9003), signal black (9004), black brown (8022)
Agar	ISP 3 - S	green beige (1000)
Agar	ISP 4 - G	good
Agar	ISP 4 - R	sand yellow (1002)
Agar	ISP 4 - A	sparse, traffic white (9016)
Agar	ISP 4 - S	none
Agar	ISP 5 - G	sparse
Agar	ISP 5 - R	ivory (1014)
Agar	ISP 5 - A	sparse, traffic white (9016), black brown (8022)
Agar	ISP 5 - S	sand yellow (1002)
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	sparse
Agar	ISP 7 - R	ivory (1014), khaki grey (7008)

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Agar	ISP 7 - A	sparse, silk grey (7044), platinum grey (7036), traffic white (9016)
Agar	ISP 7 - S	sand yellow (1002)
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	daffodil yellow (1007), ocher brown (8001)
Agar	suter with tyrosine - A	sparse, traffic white (9016)
Agar	suter with tyrosine - S	ocher brown (8001)
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	sand yellow (1002)
Agar	suter without tyrosine - A	sparse, traffic white (9016)
Agar	suter without tyrosine - S	sand yellow (1002)
	Sporechains/Sporangia	
Physiology		
Melanin		- + + + no 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)	3
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	5
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5

Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	4
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	1
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

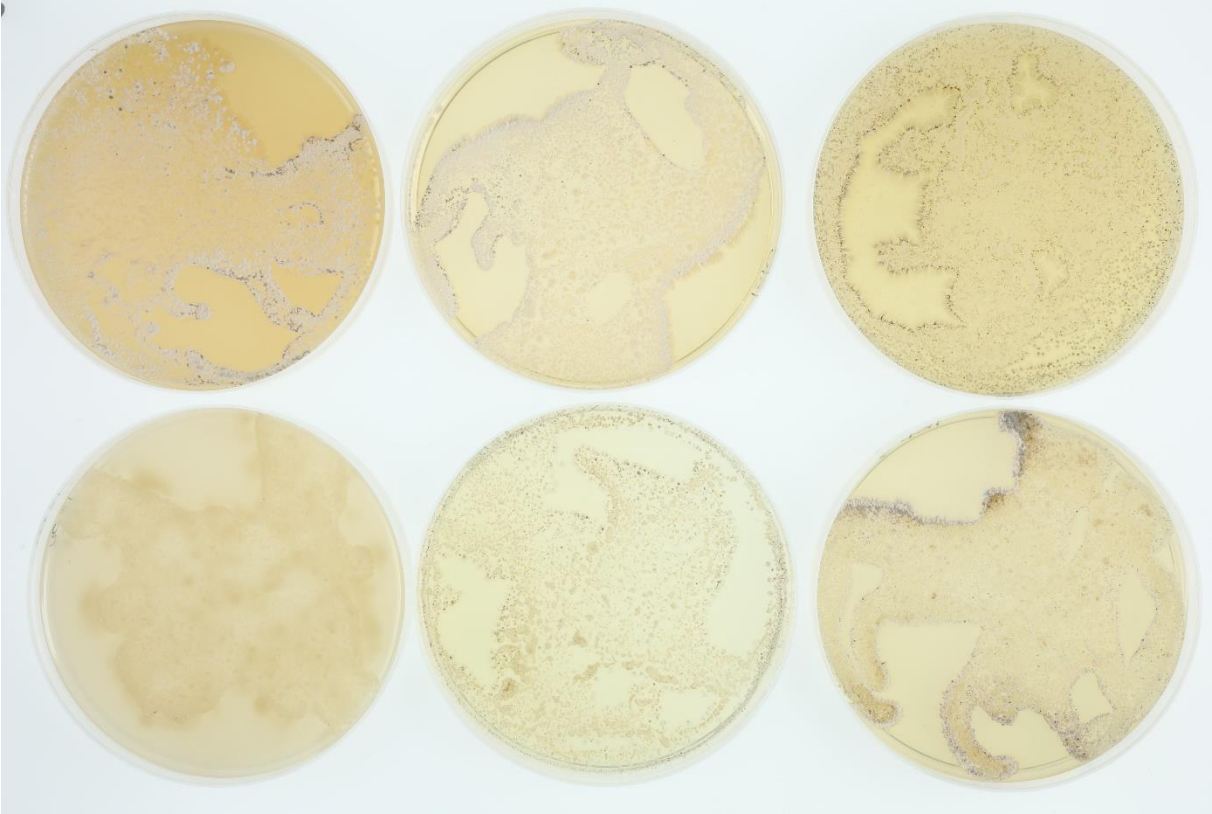


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

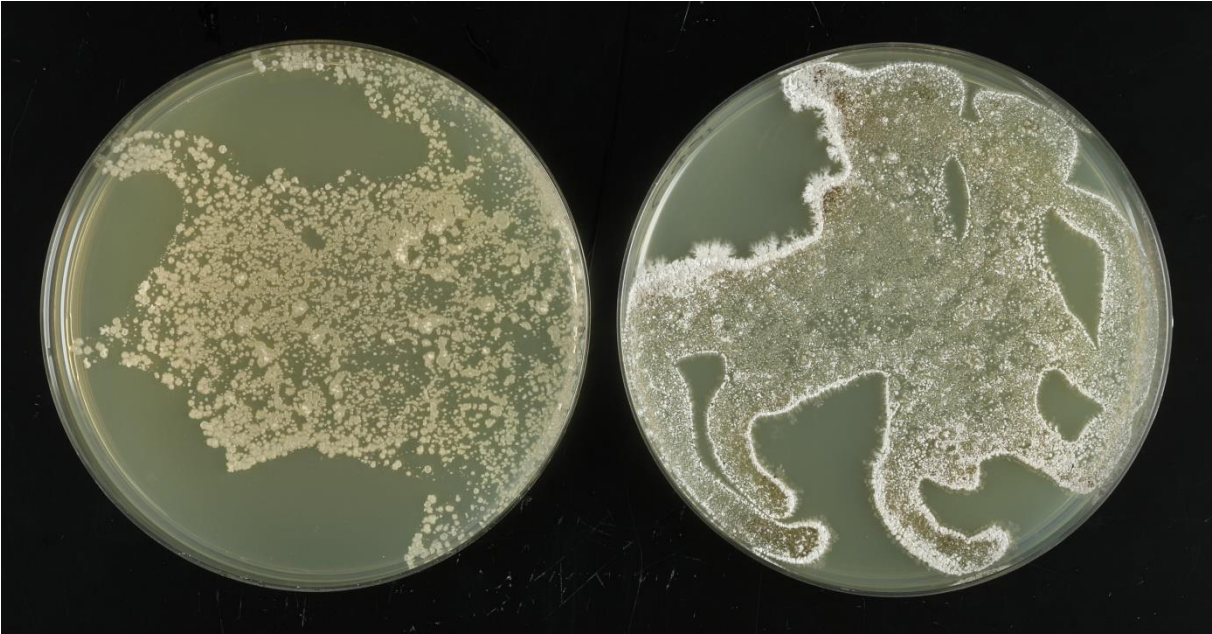
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)

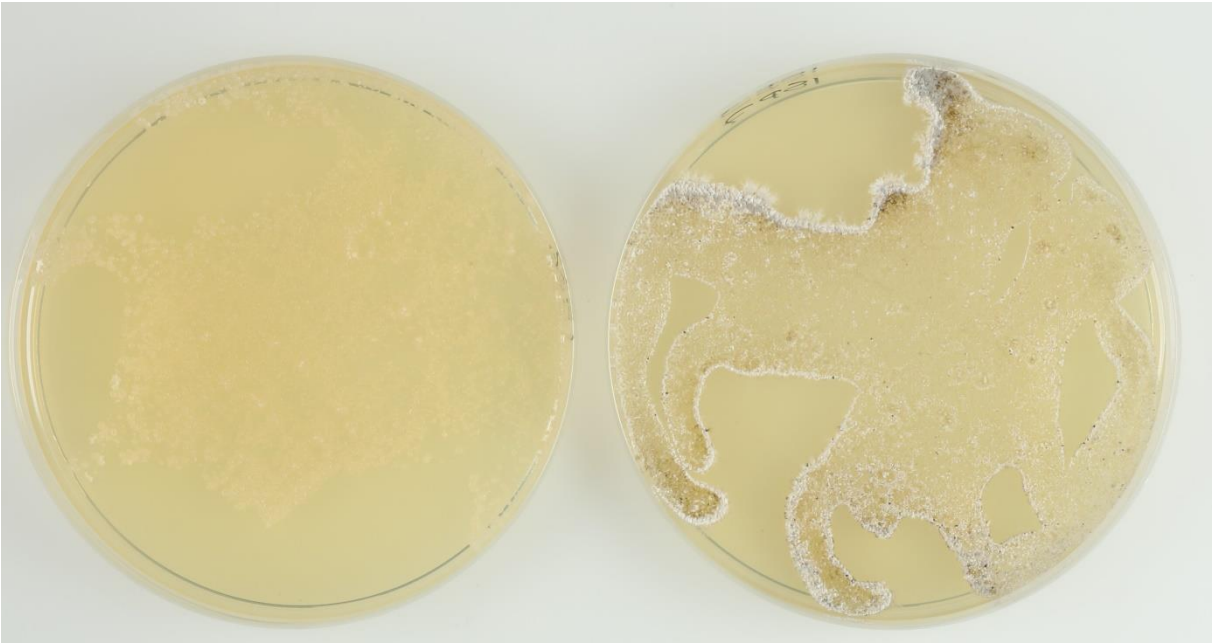


with backlight



(ISP6, ISP7)





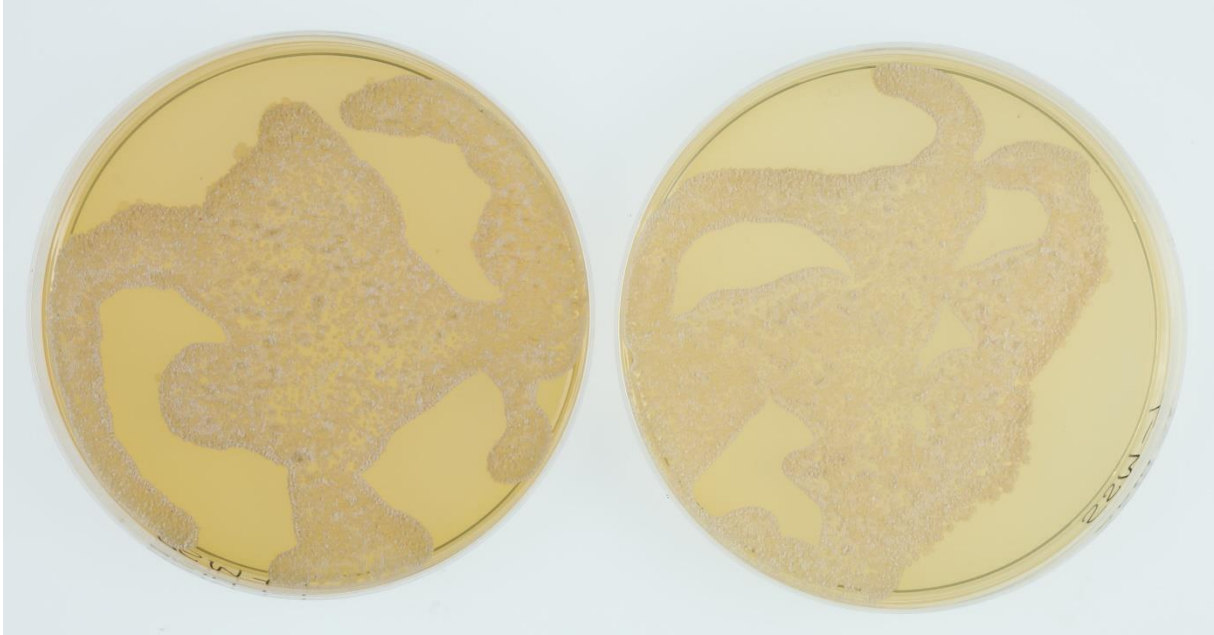
with backlight



(SSM+T, SSM-T)

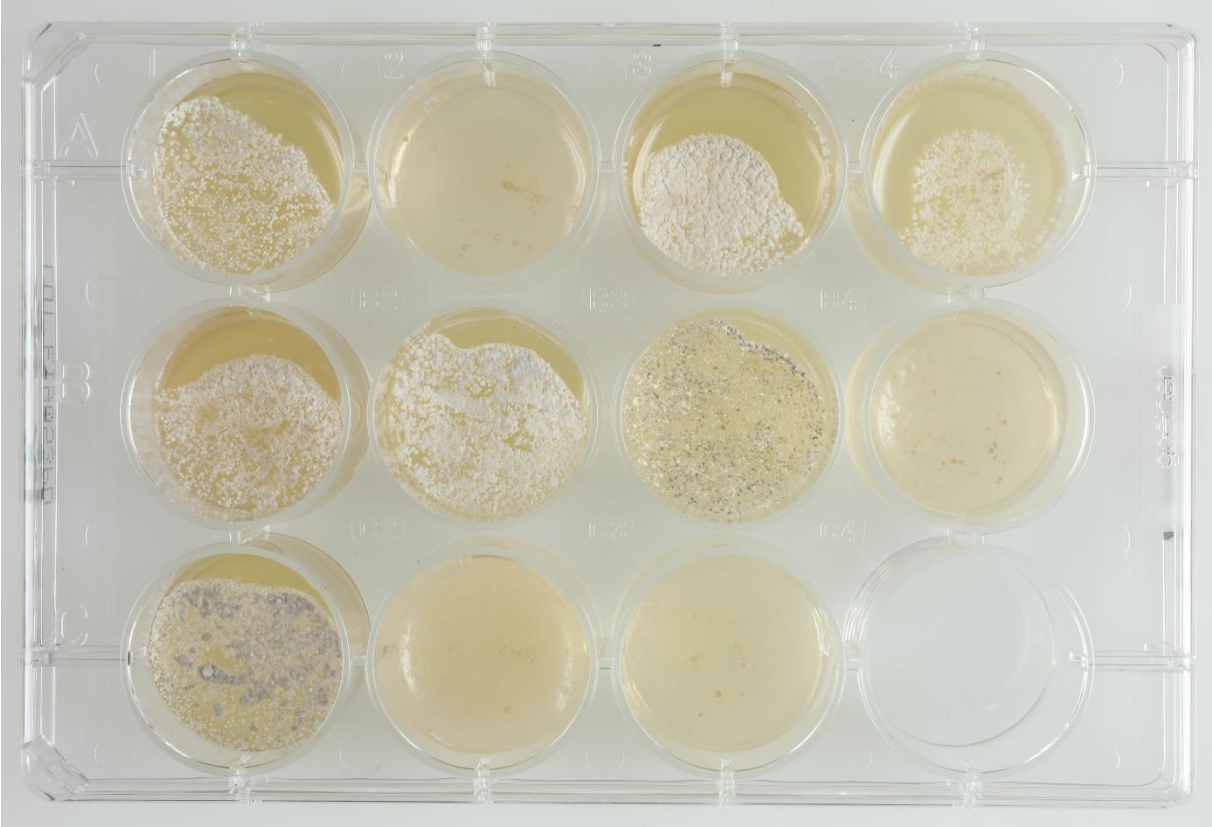


with backlight



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%)

