

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 42152
Genus		<i>Streptomyces</i>
Species		<i>ferrugineus</i>
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		CCTCC AA2014009, HV38
Genbank accession numbers		16S rRNA gene: KF767859
Reference		
Author		Ruan, C. Y., Zhang, L., Ye, W. W., Xie, X. C., Srivibool, R., Duangmal, K., Pathom-Aree, W., Deng, Z. X., Hong, K.
Title		<i>Streptomyces ferrugineus</i> sp. nov., isolated from mangrove soil in Thailand
Journal		<i>Antonie Van Leeuwenhoek</i>
Volume		107 (1)
Page		39-45
Year		2015
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	copper brown (8004), red brown (8012)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good
Agar	ISP 3 - R	black red (3007), coral red (3016), raspberry red (3027)
Agar	ISP 3 - A	signal white (9003)
Agar	ISP 3 - S	none
Agar	ISP 4 - G	good
Agar	ISP 4 - R	red orange (2011)
Agar	ISP 4 - A	saffron yellow (1017), sparse
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good
Agar	ISP 5 - R	wine red (3005)
Agar	ISP 5 - A	signal white (9003)
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse
Agar	ISP 6 - R	purple red (3004), beige (1001)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	signal brown (8002)

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Agar	ISP 7 - A	signal white (9003)
Agar	ISP 7 - S	ochre yellow (1024)
Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	platinum grey (7036)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	traffic black (9017)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	purple red (3004)
Agar	suter without tyrosine - A	signal white (9003), sparse
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)	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	1
Api zym	Trypsin	3
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	2
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0

Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	0
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 42152.

Apizym

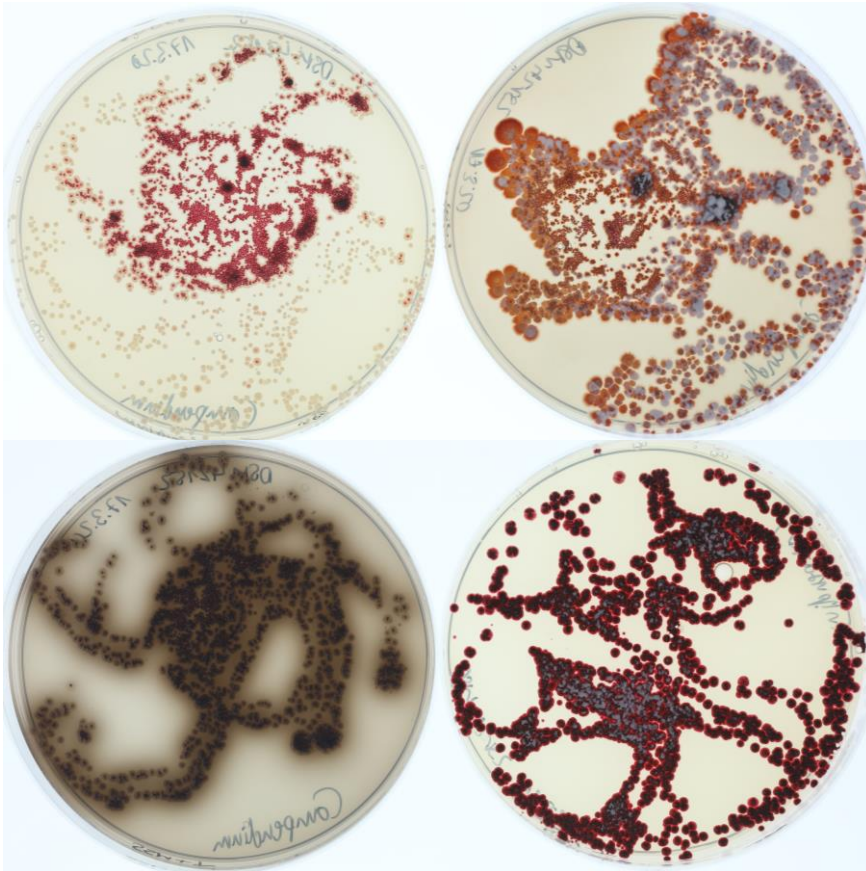


Abbildung 2: Apizym-Teststreifen mit Keim DSM 42152.

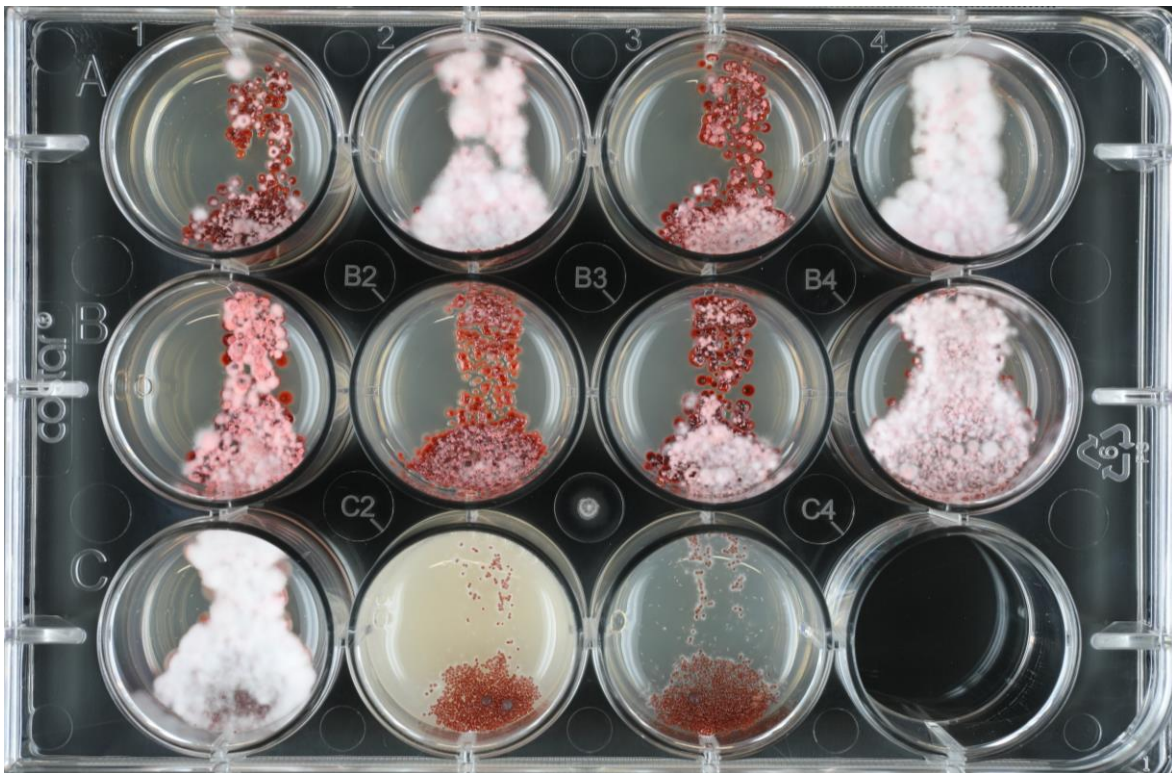
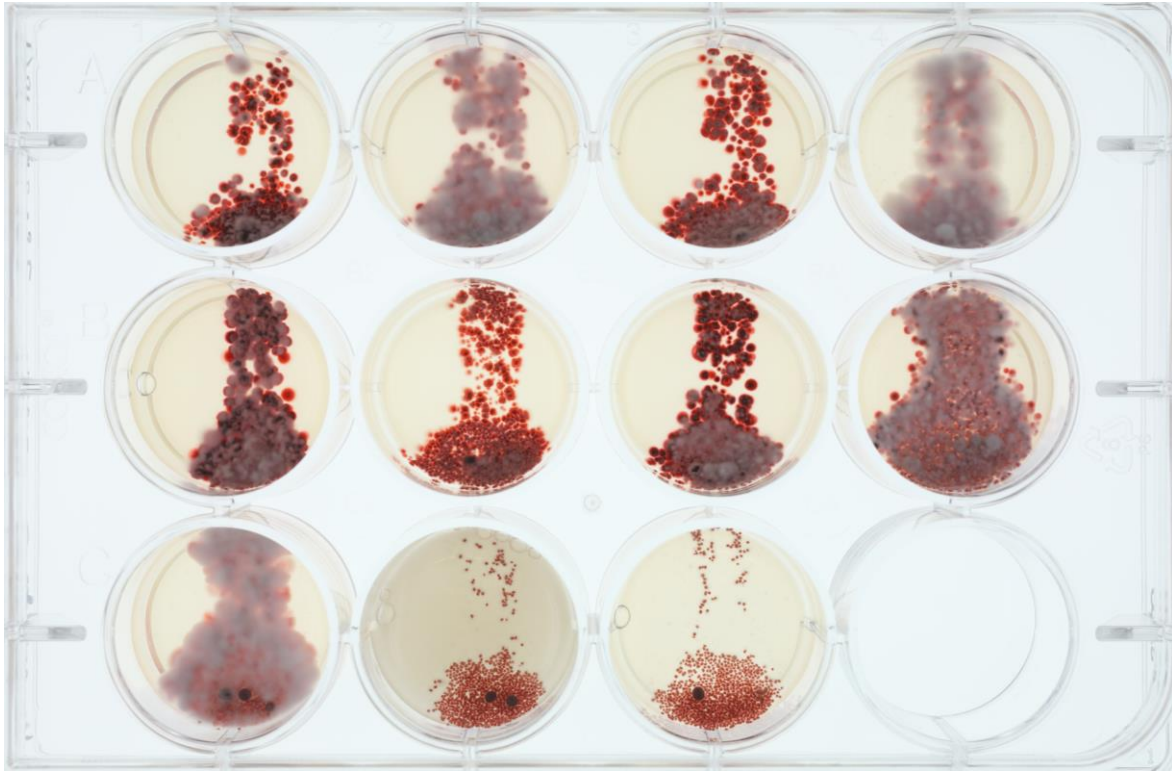
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

