Strain		DSM 45510
Genus		***Amycolatopsis***
Species		***magusensis***
Status		
Risk group		L1
Type strain		KT2025, JCM 31204, KCTC 29056
Genbank accession number		16S rRNA gene: HQ157190
Reference		
Author		Camas, M., Sahin, N., Sazak, A., Spröer, C., Klenk, H. P.
Title		Amycolatopsis magusensis sp. nov., isolated from soil
Journal		Int J Syst Evol Microbiol
Volume		63 (Pt4)
Page		1254-60
Year		2013
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	1002 sand yellow
Agar	ISP 2 - aerial mycelium/A	Sparse, 9001 Cream
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1014 ivory
Agar	ISP 3 - A	Sparse, 9001 Cream
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	1017 saffron yellow
Agar	ISP 4 - A	Good, 9001 Cream
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1006 maize yellow, 1034 pastel yellow
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Sparse
Agar	ISP 6 - R	1014 ivory
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	1007 daffodil yellow
Agar	ISP 7 - A	Sparse, 9001 Cream
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Sparse

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Agar	suter with tyrosine - R	1015 light ivory
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Sparse
Agar	suter without tyrosine - R	1015 light ivory
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		0
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		10%
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 alcaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	4
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	4
Api zym	Cystine arylamidase	2
Api zym	Trypsin	5
Api zym	Chymotrypsin	4
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	5
Api zym	beta galactosidase	1
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

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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	-
Metabolites		
Antimicrobial	Staphylococcus aureus	
Antimicrobial	Escherichia coli	
Antimicrobial	Micrococcus luteus	
Antimicrobial	Pseudomonas aeruginosa	
Antimicrobial	Streptomyces murinus	
Antimicrobial	Bacillus subtilis	
Antimicrobial	Candida albicans	
Antimicrobial	Saccharomyces cerevisiae	
Antimicrobial	Aspergillus niger	

APIcoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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

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(ISP6, ISP7)

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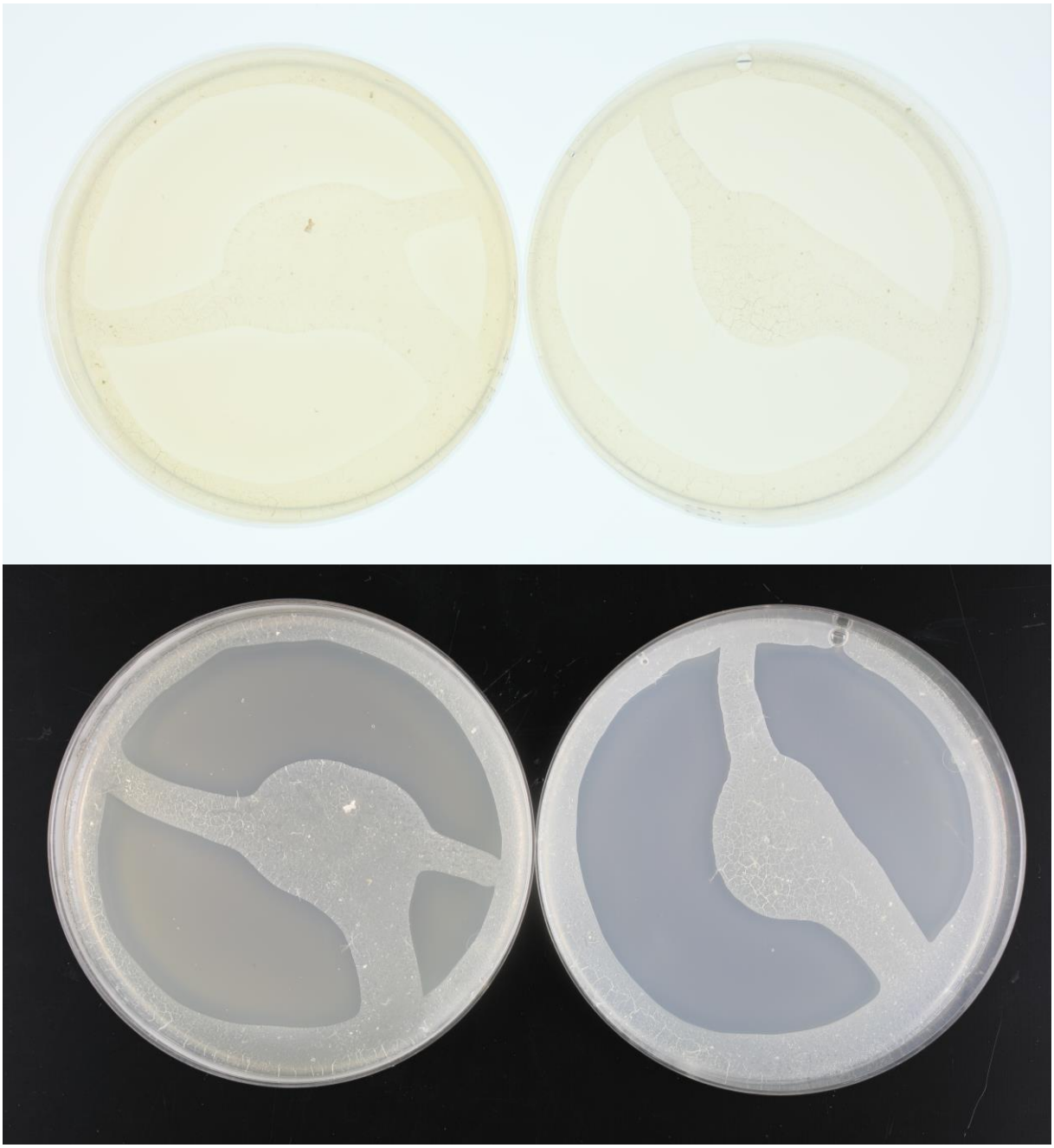
(SSM+T, SSM-T)



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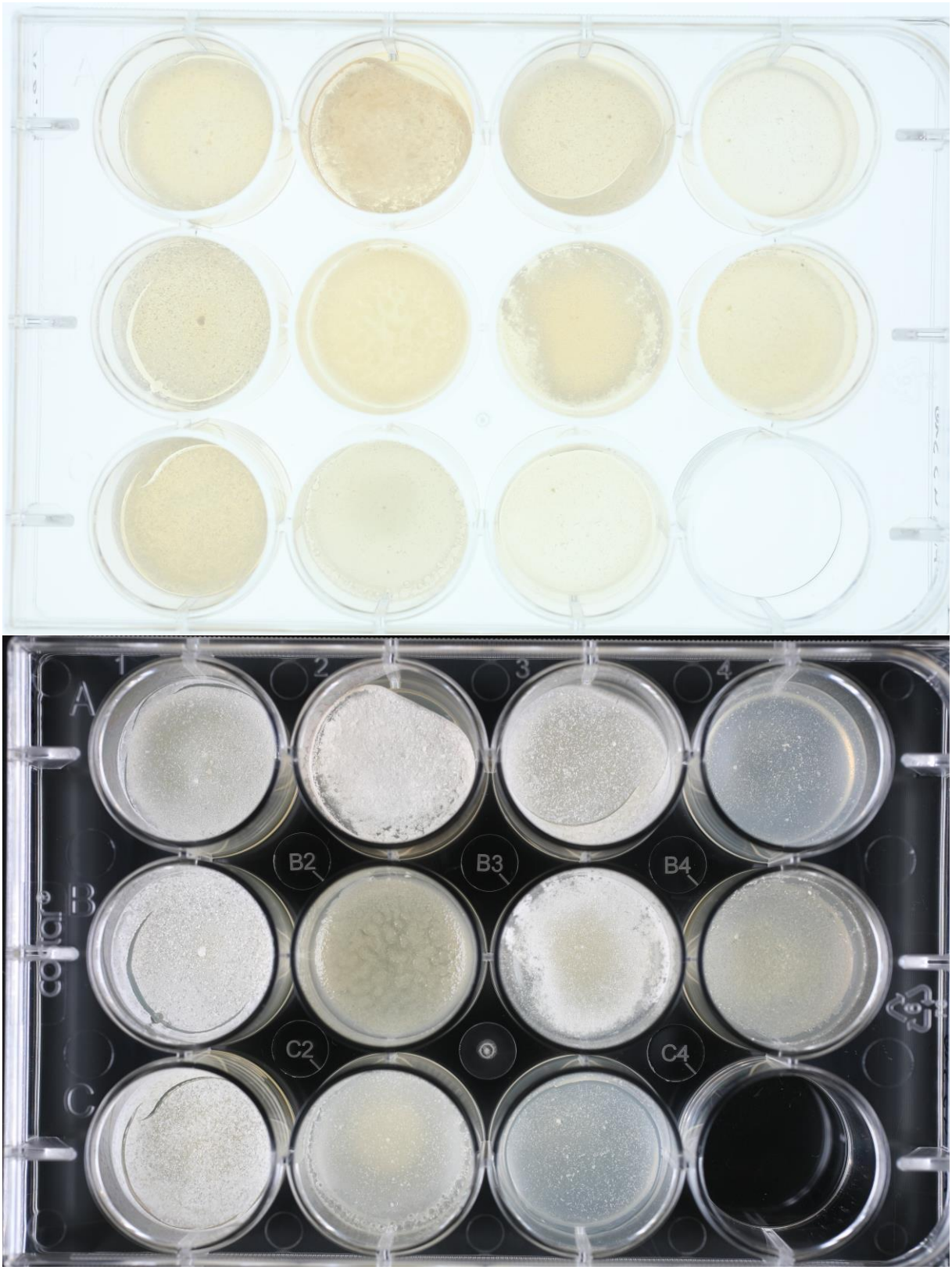
Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose)



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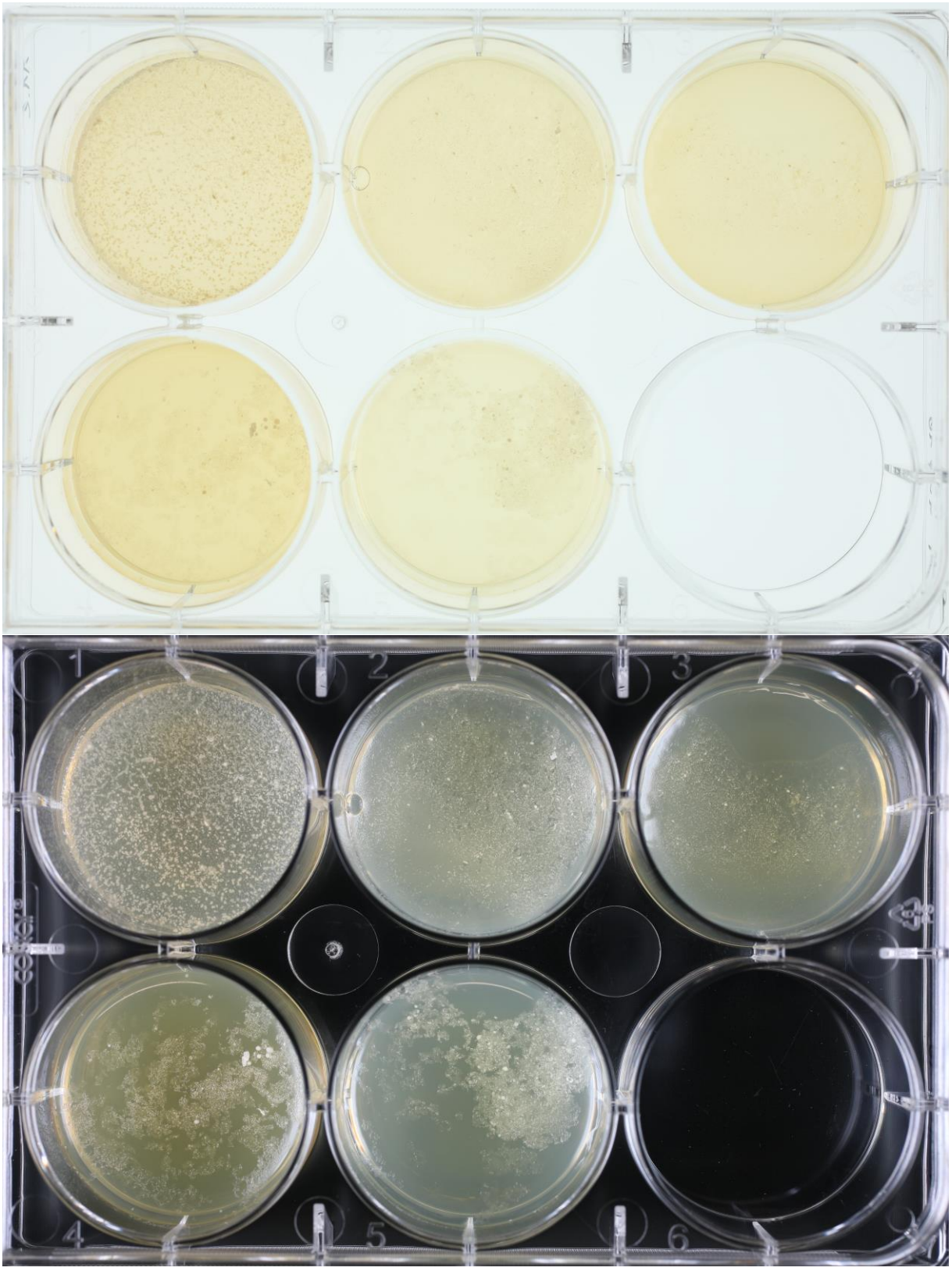
Sodium chloride tolerance test (from top left to bottom right: 0%, 2,5%, 5%, 7,5%, 10%)



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