

Compendium of Actinobacteria from Dr. Joachim M. Wink
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Strain		DSM 45579
Genus		<i>Rhodococcus</i>
Species		<i>cerastii</i>
Status		
Risk group		L1
Type strain		C5, C5(2010), CCM 7906, LMG 26203
Reference		
Author		Kämpfer, P., Wellner, S., Lohse, K., Lodders, N., Martin, K.
Title		Rhodococcus cerastii sp. nov. and Rhodococcus trifolii sp. nov., two novel species isolated from leaf surfaces
Journal		Int J Syst Evol Microbiol
Volume		63 (pt3)
Page		1024-9
Year		2013
Morphology		
Agar	ISP 2 - growth/G	sparse
Agar	ISP 2 - colony color/R	maize yellow (1006)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	none
Agar	ISP 3 - R	none
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	none
Agar	ISP 4 - R	none
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	sparse
Agar	ISP 5 - R	maize yellow (1006)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	none
Agar	ISP 6 - R	none
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	good
Agar	ISP 7 - R	maize yellow (1006)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	daffodil yellow (1007)

Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	maize yellow (1006)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	
Physiology		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		5%
lysozyme tolerance		
use of carbohydrates	glucose	not grown
use of carbohydrates	arabinose	not grown
use of carbohydrates	sucrose	not grown
use of carbohydrates	xylose	not grown
use of carbohydrates	inositol	not grown
use of carbohydrates	mannose	not grown
use of carbohydrates	fructose	not grown
use of carbohydrates	rhamnose	not grown
use of carbohydrates	raffinose	not grown
use of carbohydrates	cellulose	not grown
Api zym	Phosphatase alcaline	1
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3-4
Api zym	Lipase (C14)	0-1
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	4
Api zym	Cystine arylamidase	1-2
Api zym	Trypsin	0-1
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	2
Api zym	Naphtol-AS-BI-phosphohydrolase	0-1
Api zym	alpha galactosidase	3
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	2
Api zym	alpha glucosidase	4
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucosaminidase	0
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	-
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



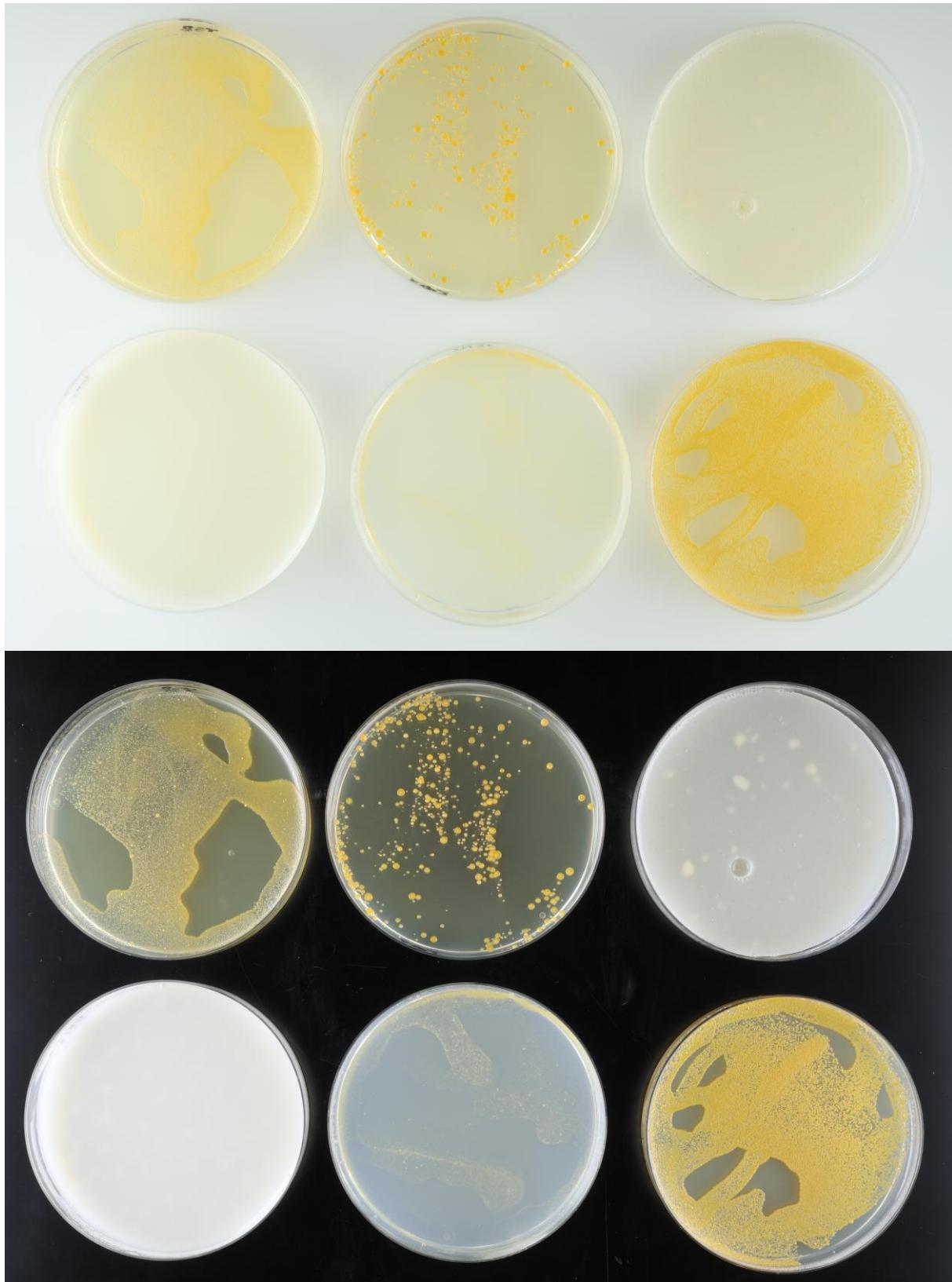
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 45579.

Apizym

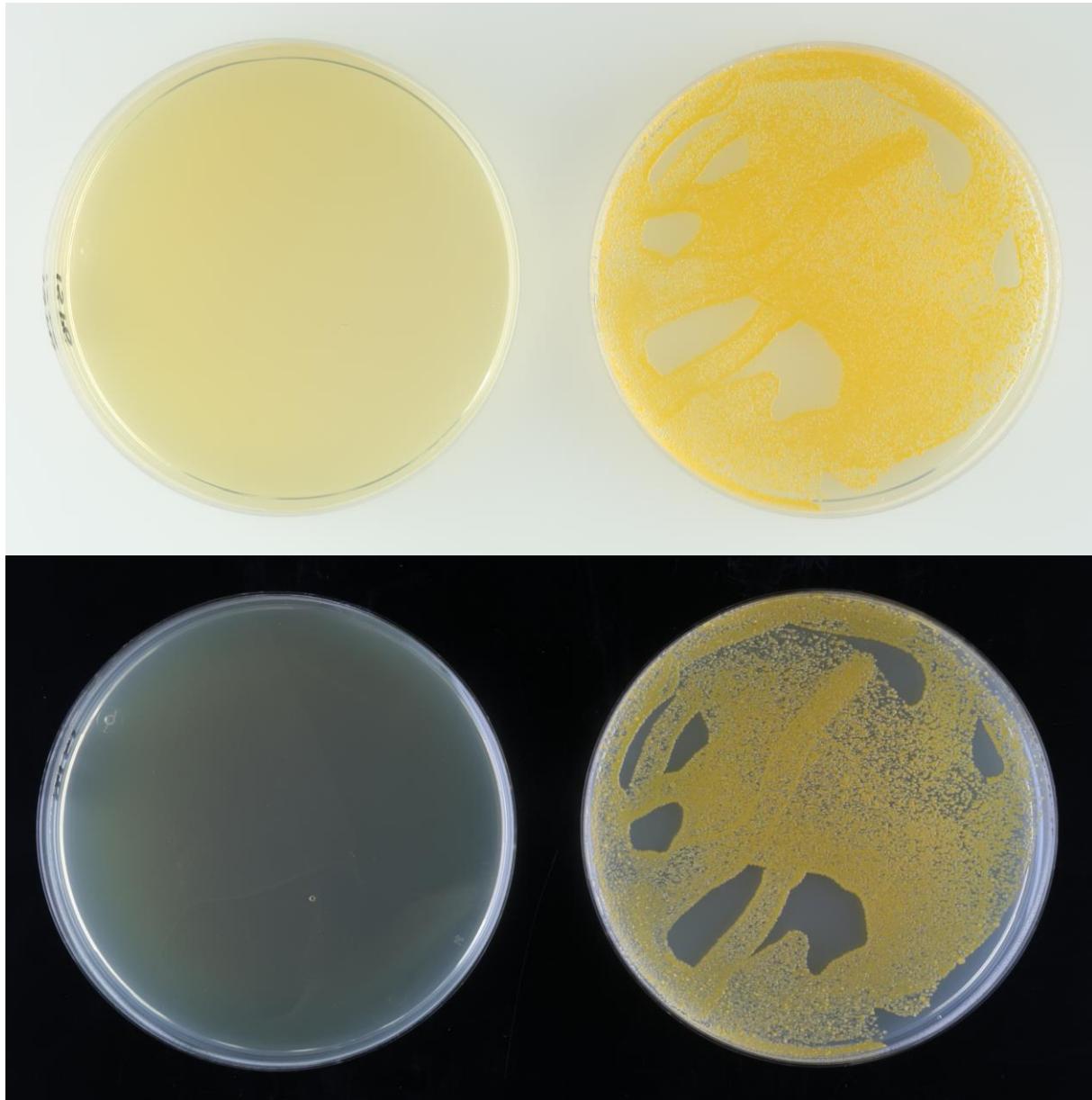


Abbildung 2: Apizym-Teststreifen mit Keim DSM 45579.

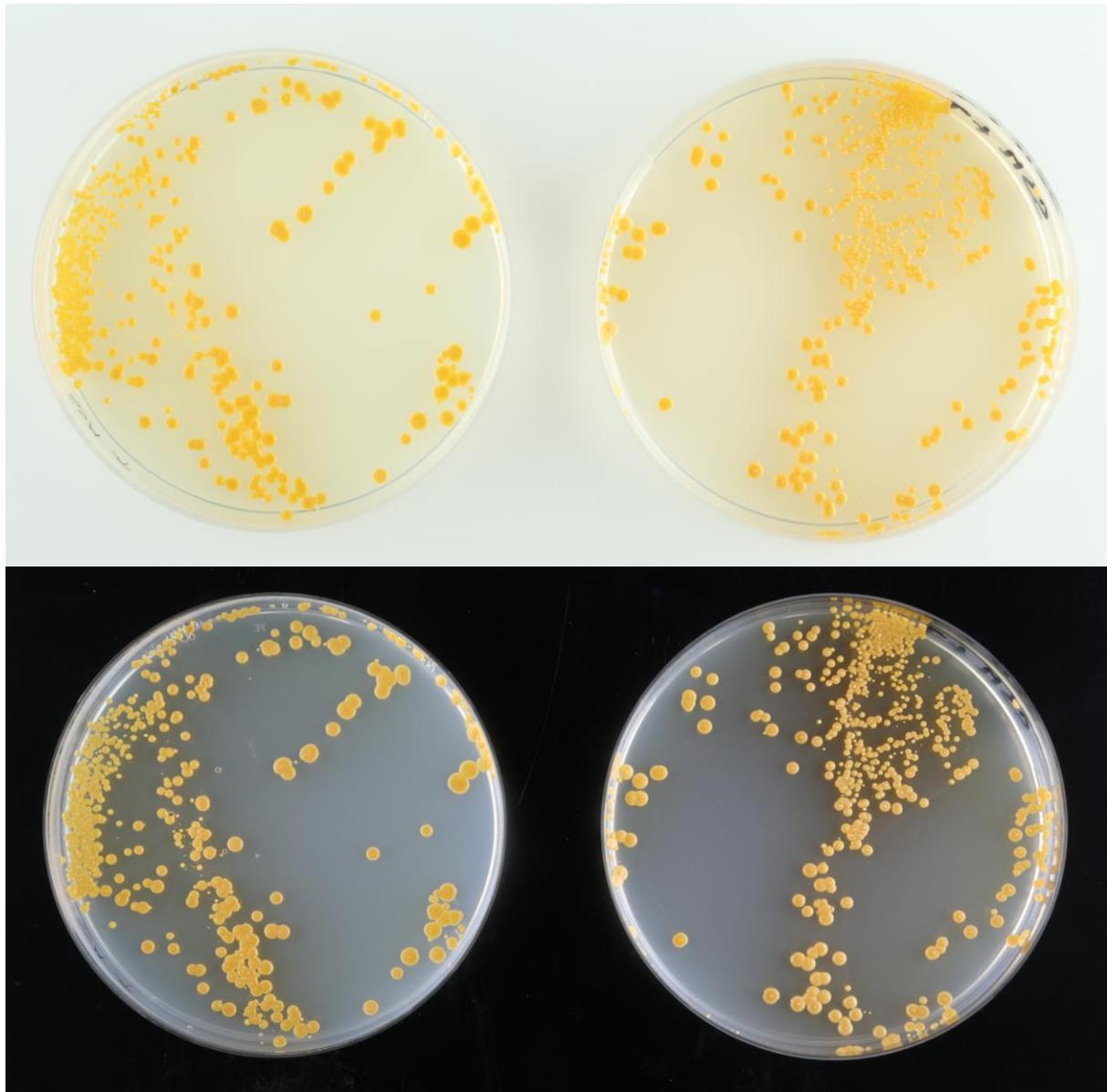
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(ISP6, ISP7)



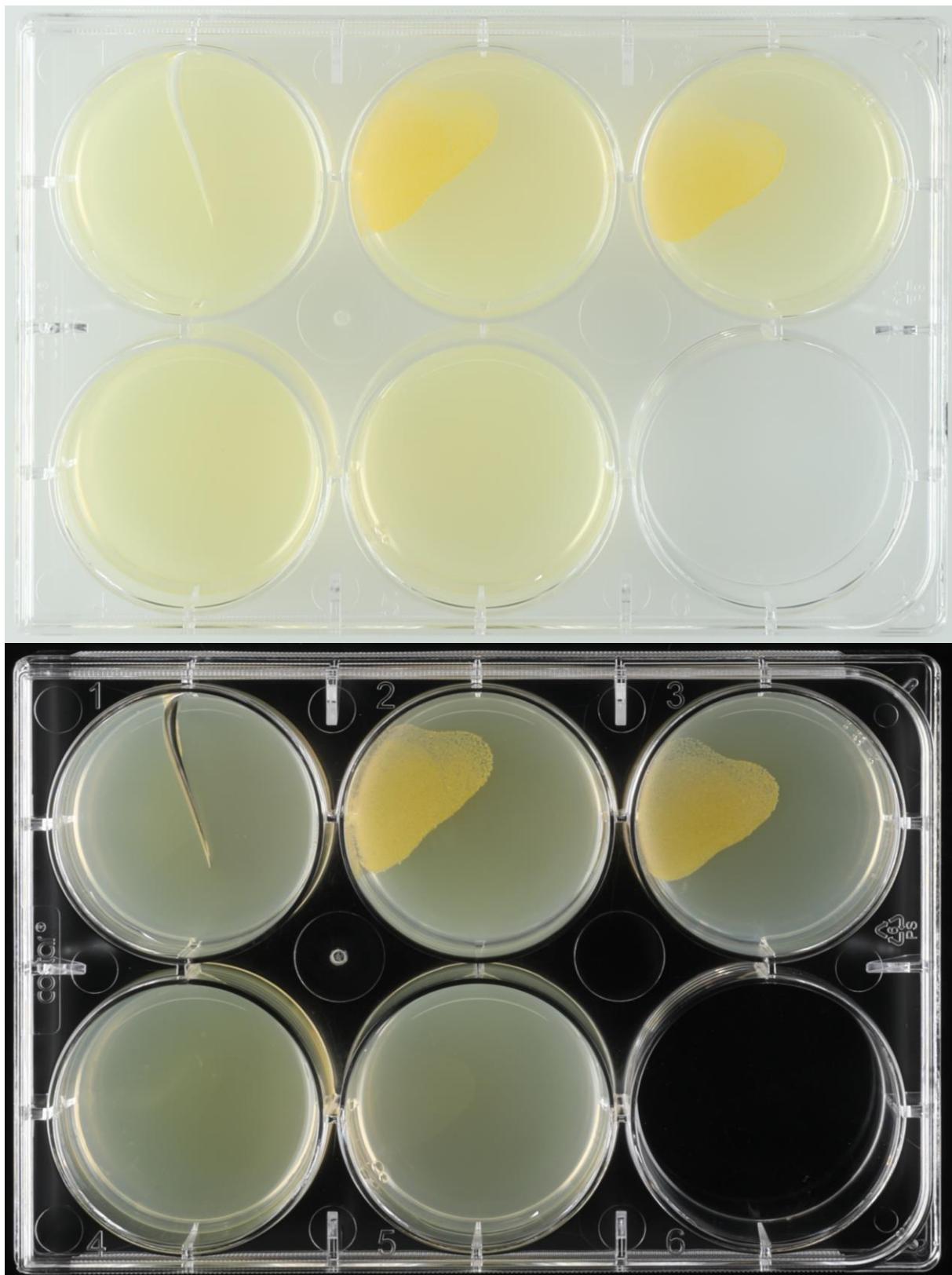
(SSM+T, SSM-T)



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%)**



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