

<b>Strain</b>		DSM 40332
Genus		<b><i>Streptomyces</i></b>
Species		<b><i>malachitofuscus</i></b>
<b>Status</b>		
Risk group		L1
Type strain		ATCC 25471, CBS 881.69, IFO 13059, INA 739, ISP 5332, NBRC 13059, RIA 1251
<b>Reference</b>		
Author		
Title		Validation of the publication of new names and new combinations previously effectively published outside the IJSB. List No. 22
Journal		Int.J.Syst.Bacteriol.
Volume		36
Page		573-576
Year		1986
<b>Morphology</b>		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	1014 Ivory
Agar	ISP 2 - aerial mycelium/A	Sparse, 9002 Grey white
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1014 Ivory, 1011 Brown beige, 6017 May green, 6011 Reseda green
Agar	ISP 3 - A	Good, 9003 Signal white, 7038 Agate grey
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	1011 Brown beige, 6017 May green, 1024 Ochre yellow
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	1001 Beige, 1015 Light ivory
Agar	ISP 5 - A	Sparse, 9001 Cream
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	1002 Sand yellow
Agar	ISP 6 - A	None
Agar	ISP 6 - S	8008 Olive brown
Agar	ISP 7 - G	Good

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Agar	ISP 7 - R	1024 Ochre yellow, 1014 Ivory
Agar	ISP 7 - A	Sparse, 9016 Traffic white
Agar	ISP 7 - S	1002 Sand yellow
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	8014 Sepia brown
Agar	suter with tyrosine - A	Sparse, 9016 Traffic white
Agar	suter with tyrosine - S	3007 Black red, 8001 Ochre brown
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1024 Ochre yellow, 1011 Brown beige
Agar	suter without tyrosine - A	Sparse, 9002 Grey white
Agar	suter without tyrosine - S	1024 Ochre yellow
	Sporechains/Sporangia	
<b>Physiology</b>		
Melanin		-
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		7,5%
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 alcaline	5
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	0
Api zym	Cystine arylamidase	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	4
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	3
Api zym	beta glucuronidase	0

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Api zym	alpha glucosidase	3
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	5
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	-
<b>Metabolites</b>		
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



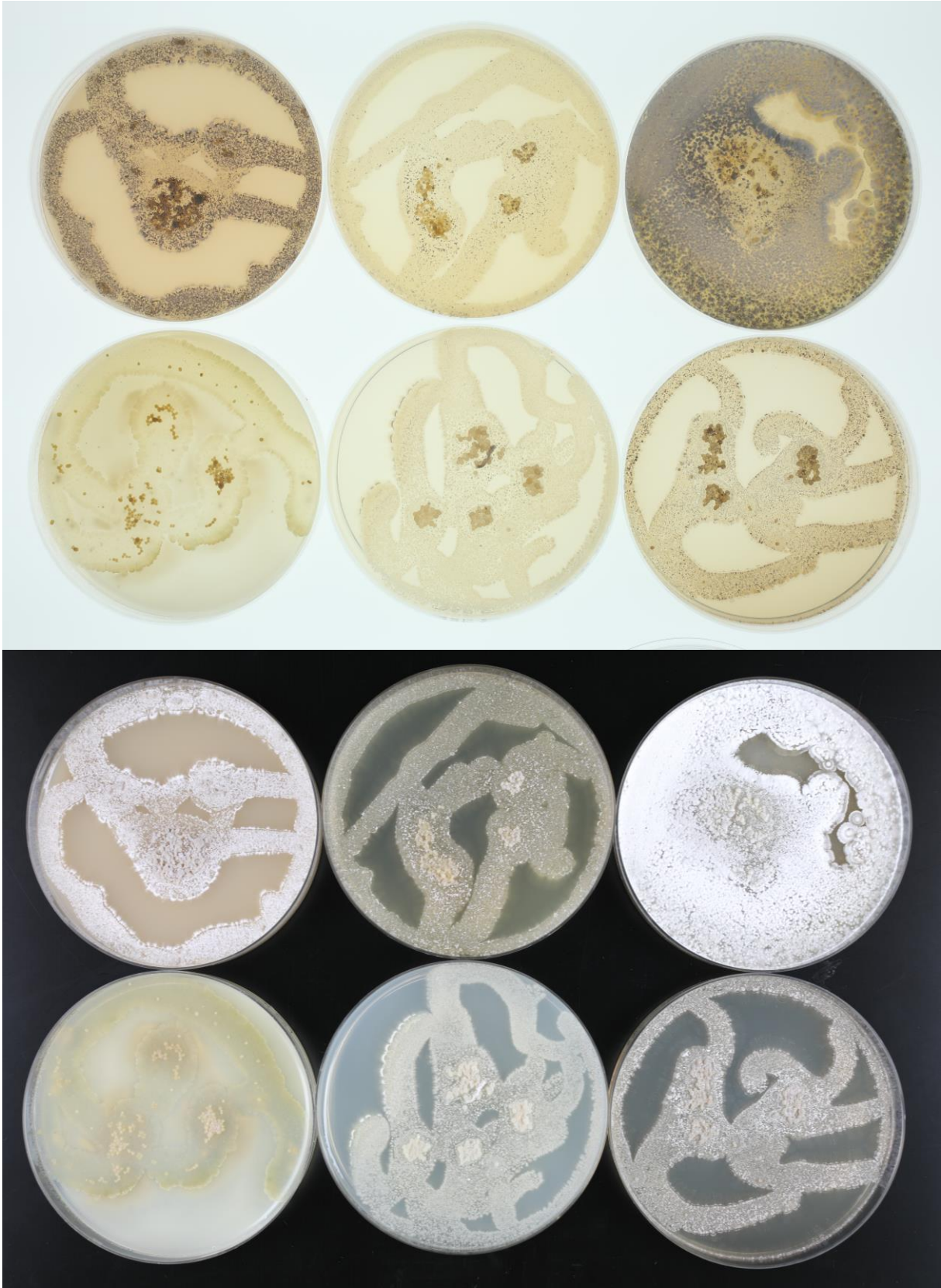
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

## APIzym



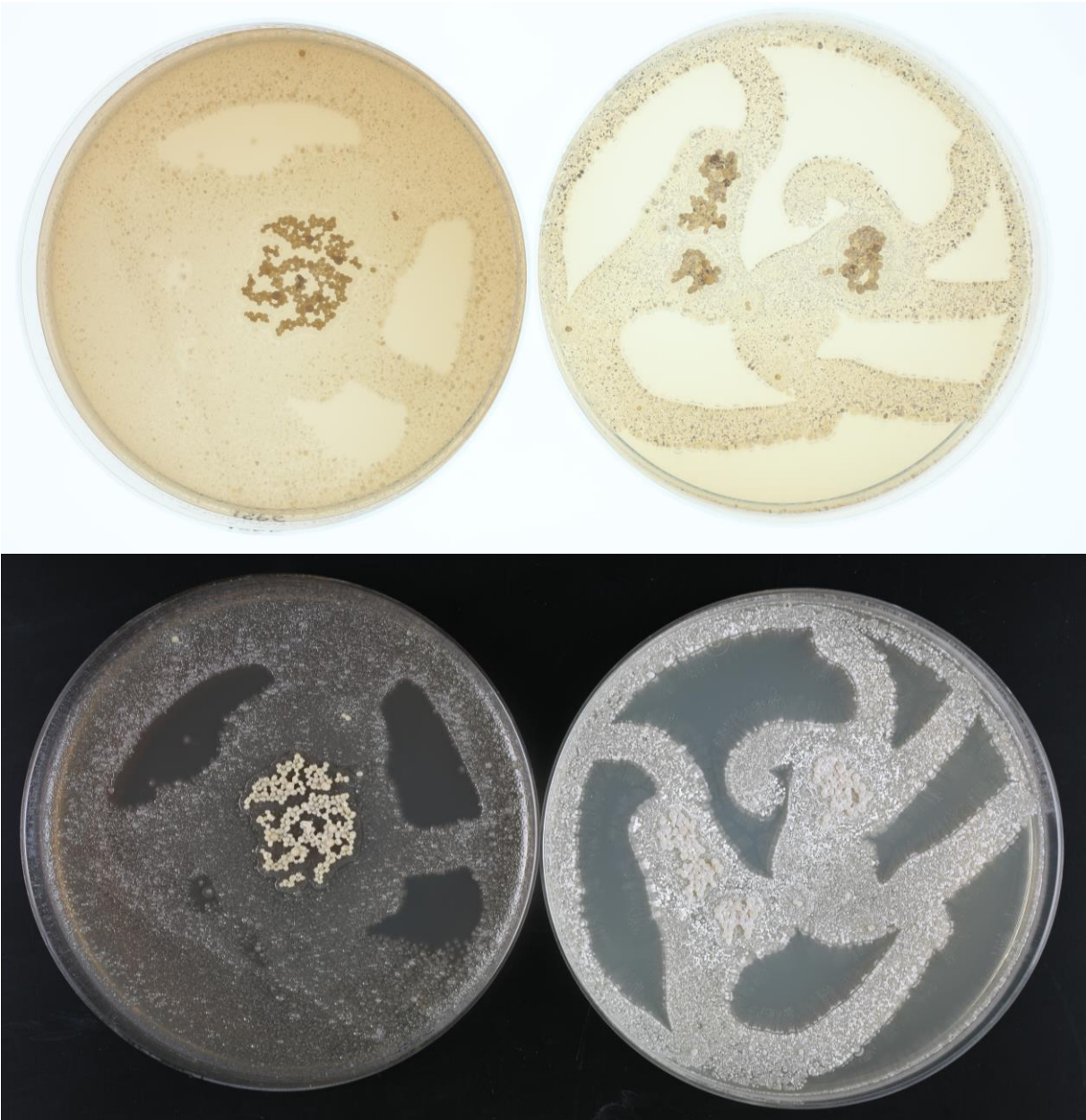
Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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

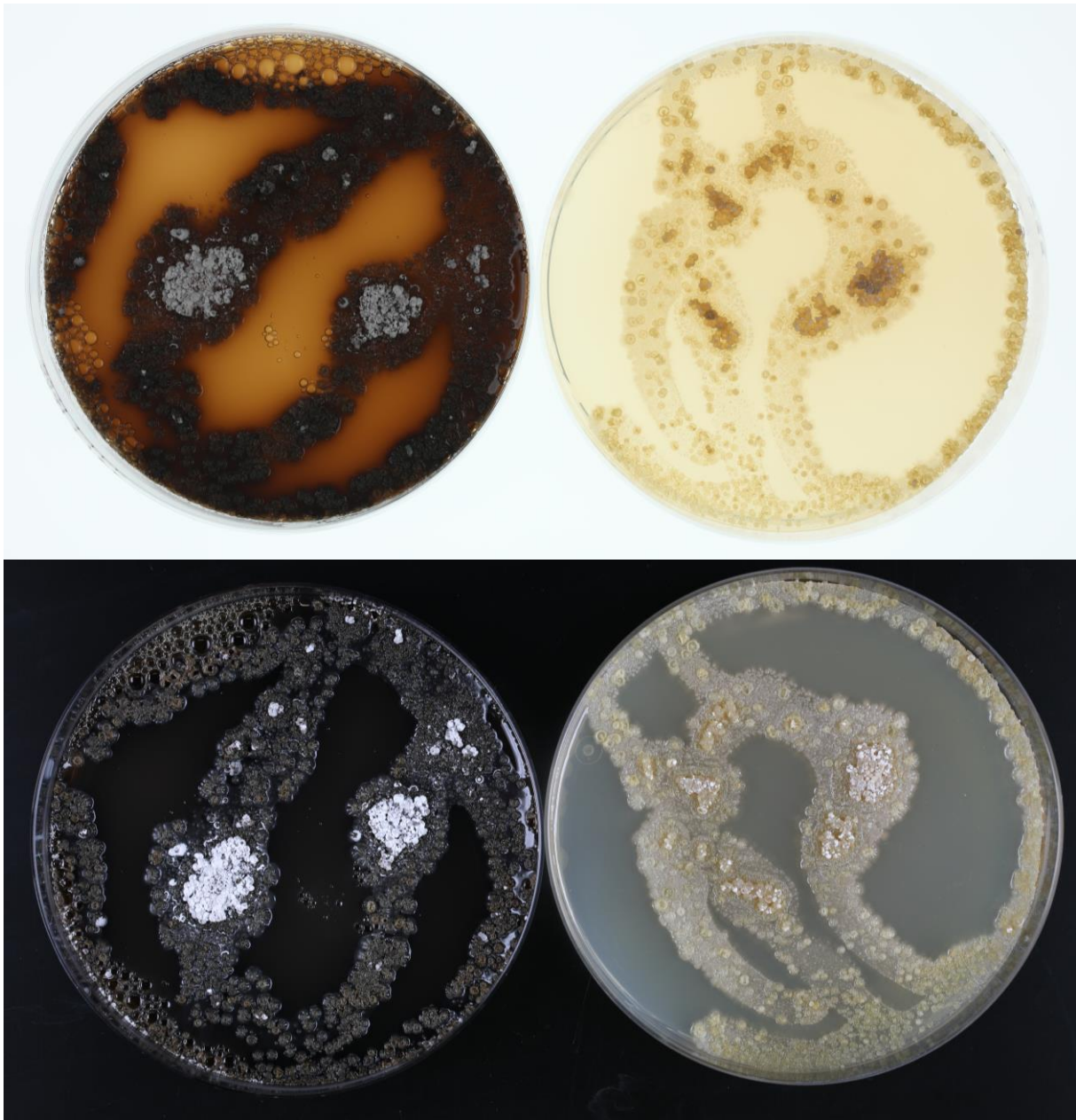




(ISP6, ISP7)

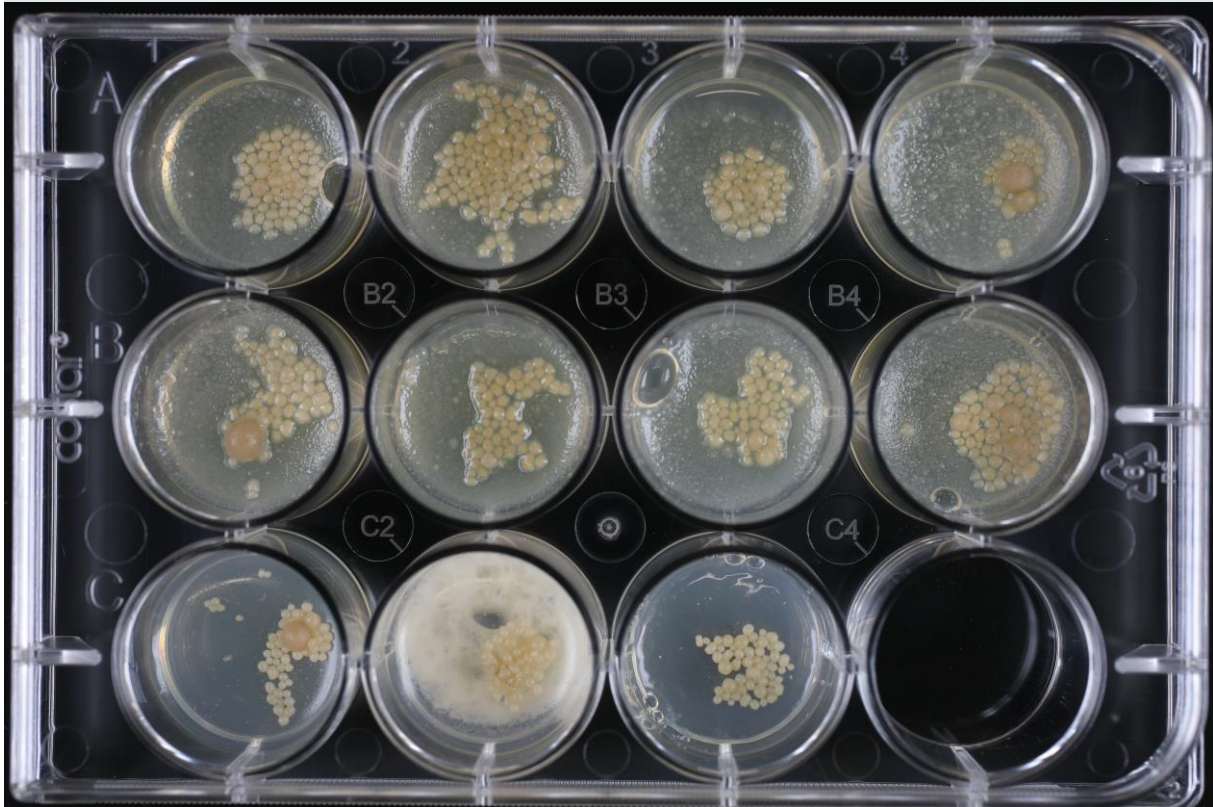
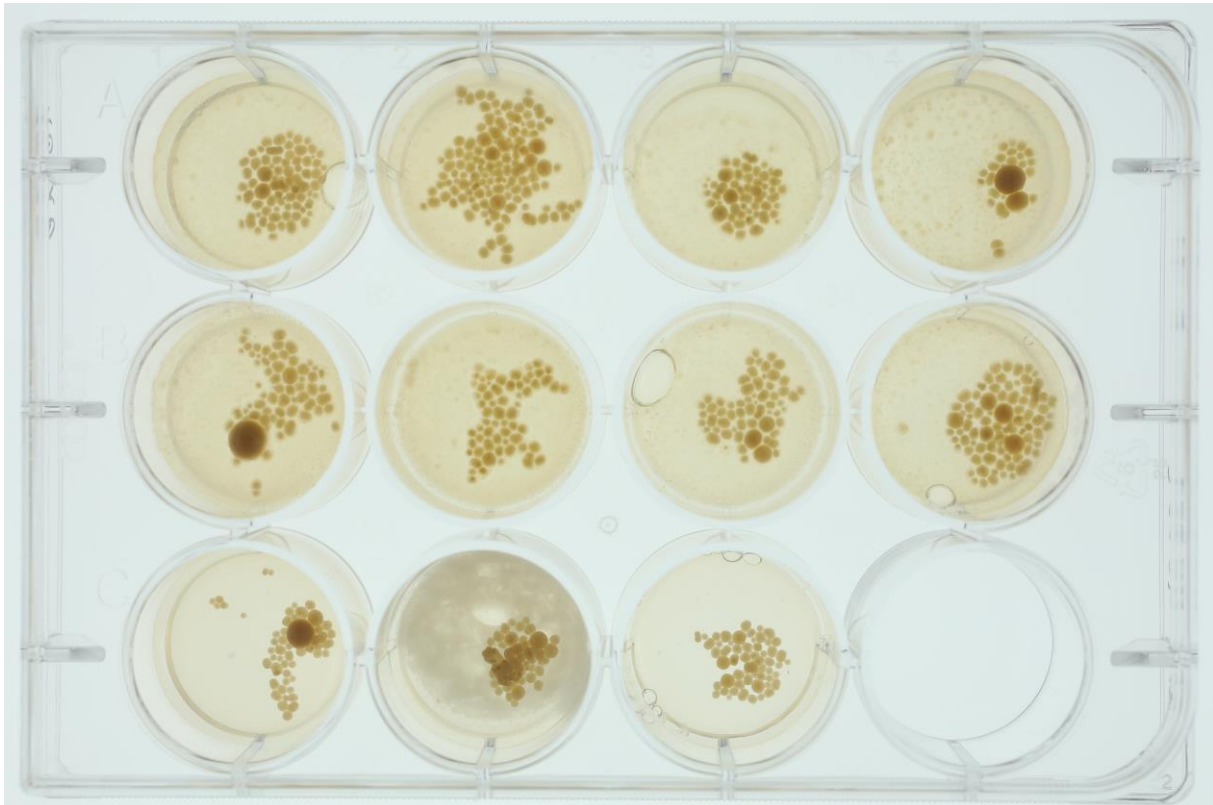


(SSM+T, SSM-T)





**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%)**

