

<b>Strain</b>		DSM 45704
Genus		<i>Micromonospora</i>
Species		<i>sonneratiae</i>
<b>Status</b>		
Risk group		L1
Type strain		274745, CCTCC AA 2012003, JCM 31037
Genbank accession number		16S rRNA gene: <a href="#">JQ619535</a> gyrB gene: <a href="#">JQ619536</a>
<b>Reference</b>		
Author		Li, L., Tang, Y. L., Wei, B., Xie, Q. Y., Deng, Z., Hong, K.
Title		<i>Micromonospora sonneratiae</i> sp. nov., isolated from a root of <i>Sonneratia apetala</i>
Journal		Int J Syst Evol Microbiol
Volume		63 (Pt7)
Page		2383-8
Year		2013
<b>Morphology</b>		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	8003 clay brown, 8007 fawn brown
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1017 saffron yellow
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	1017 saffron yellow
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Sparse
Agar	ISP 5 - R	1017 saffron yellow
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	1002 sand yellow, 1033 dahlia yellow
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Sparse
Agar	ISP 7 - R	1017 saffron yellow
Agar	ISP 7 - A	None

Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	7008 khaki grey, 8028 terra brown
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	8019 grey brown, 1013 oyster white
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
<b>Physiology</b>		
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	2
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	2
Api zym	Trypsin	2
Api zym	Chymotrypsin	3
Api zym	Phosphatase acid	3
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	1

Api zym	N-acetyl-beta-glucosaminidase	5
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 glucosaminidase	+
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	

### APlcoryne



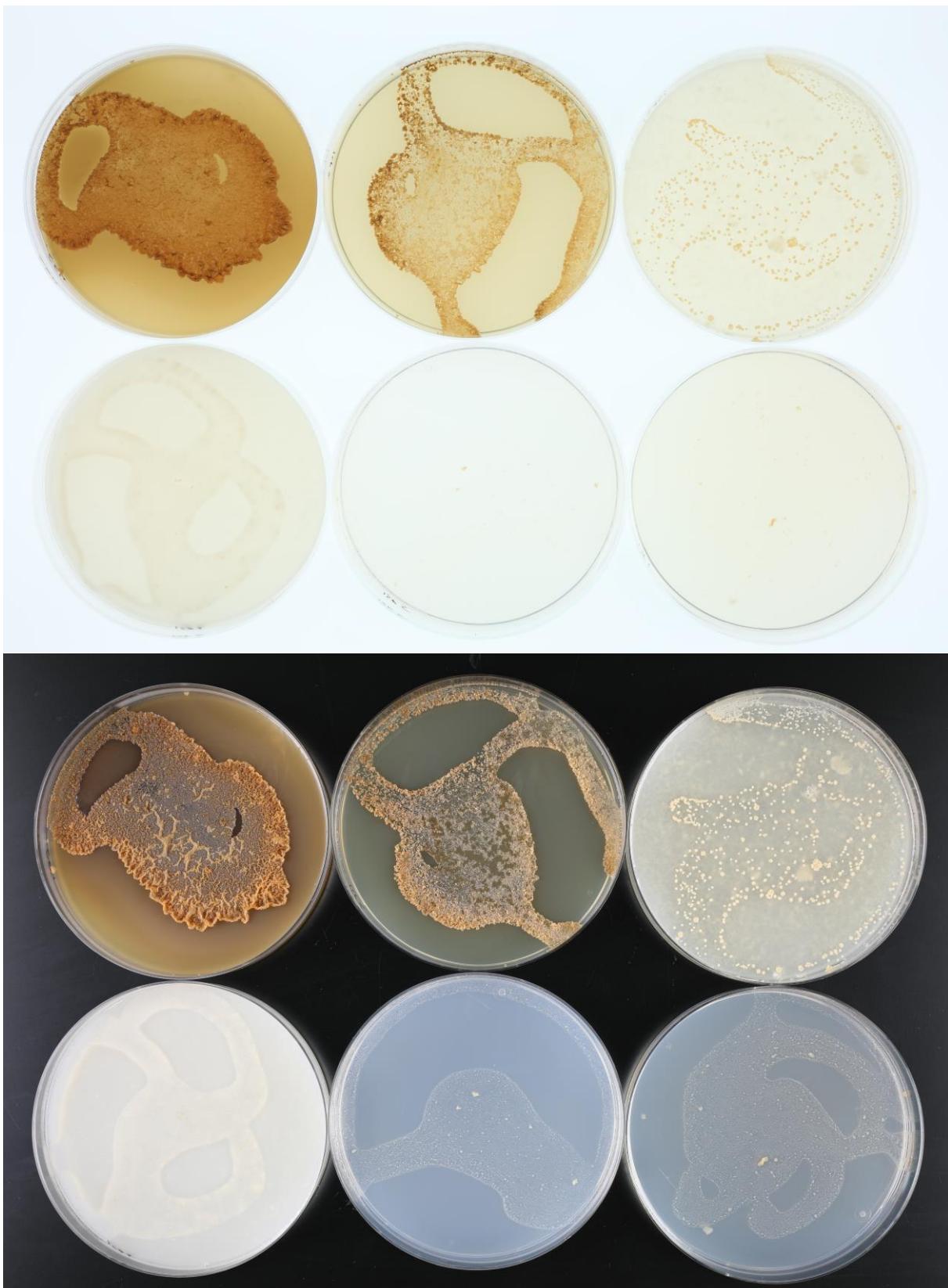
Abbildung 1: Aplicoryne-Teststreifen mit Keim DSM.

### APlzym

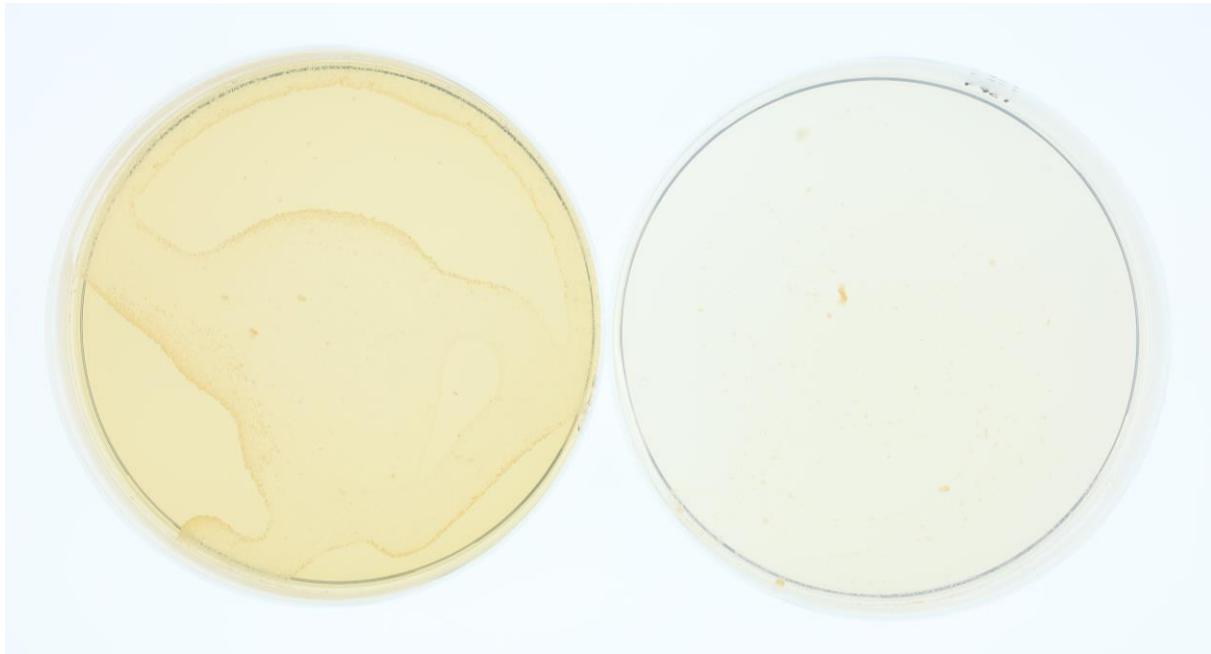


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

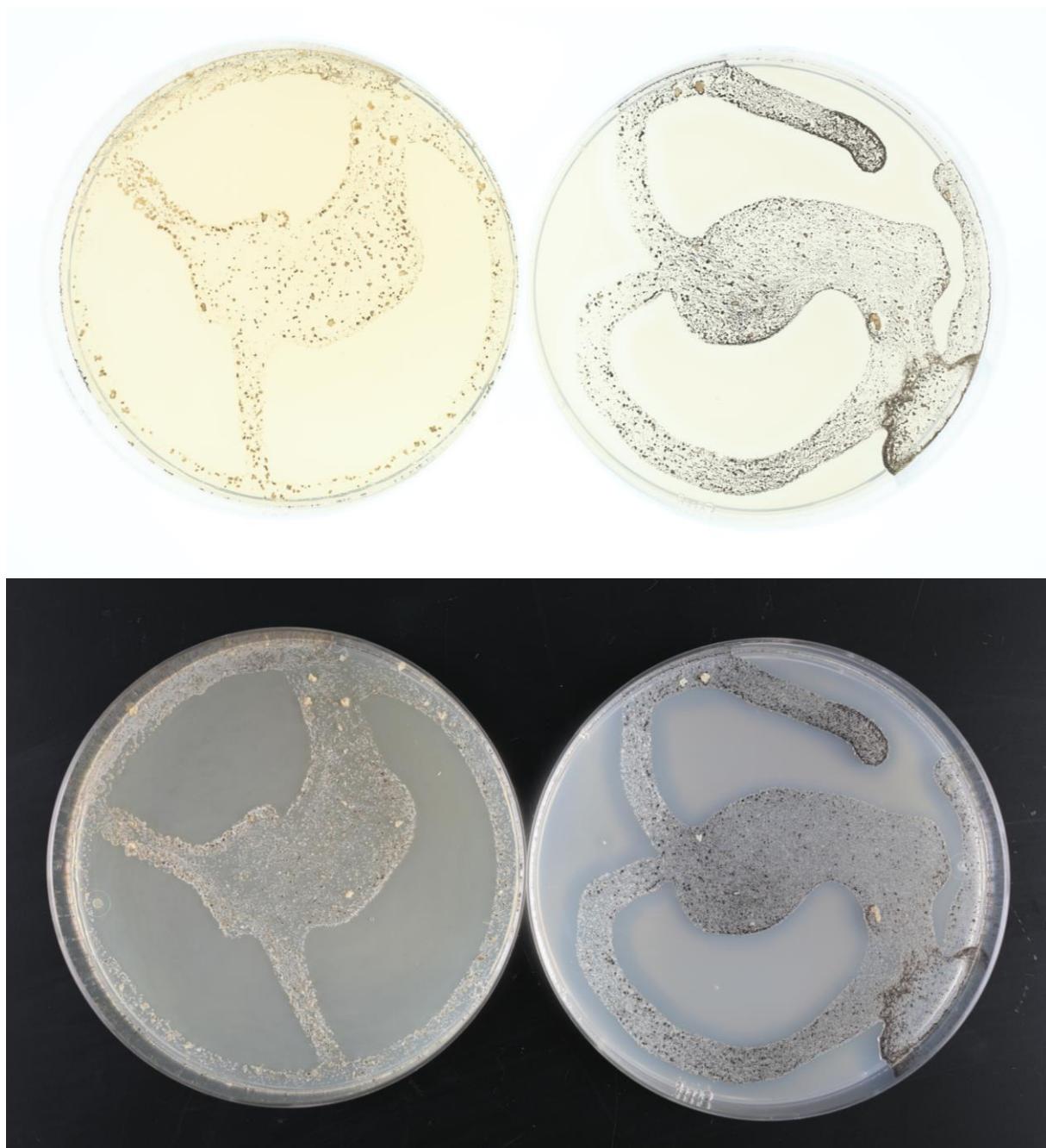
**Plates (554, ISP2, ISP3, ISP4, ISP5, ISP7)**



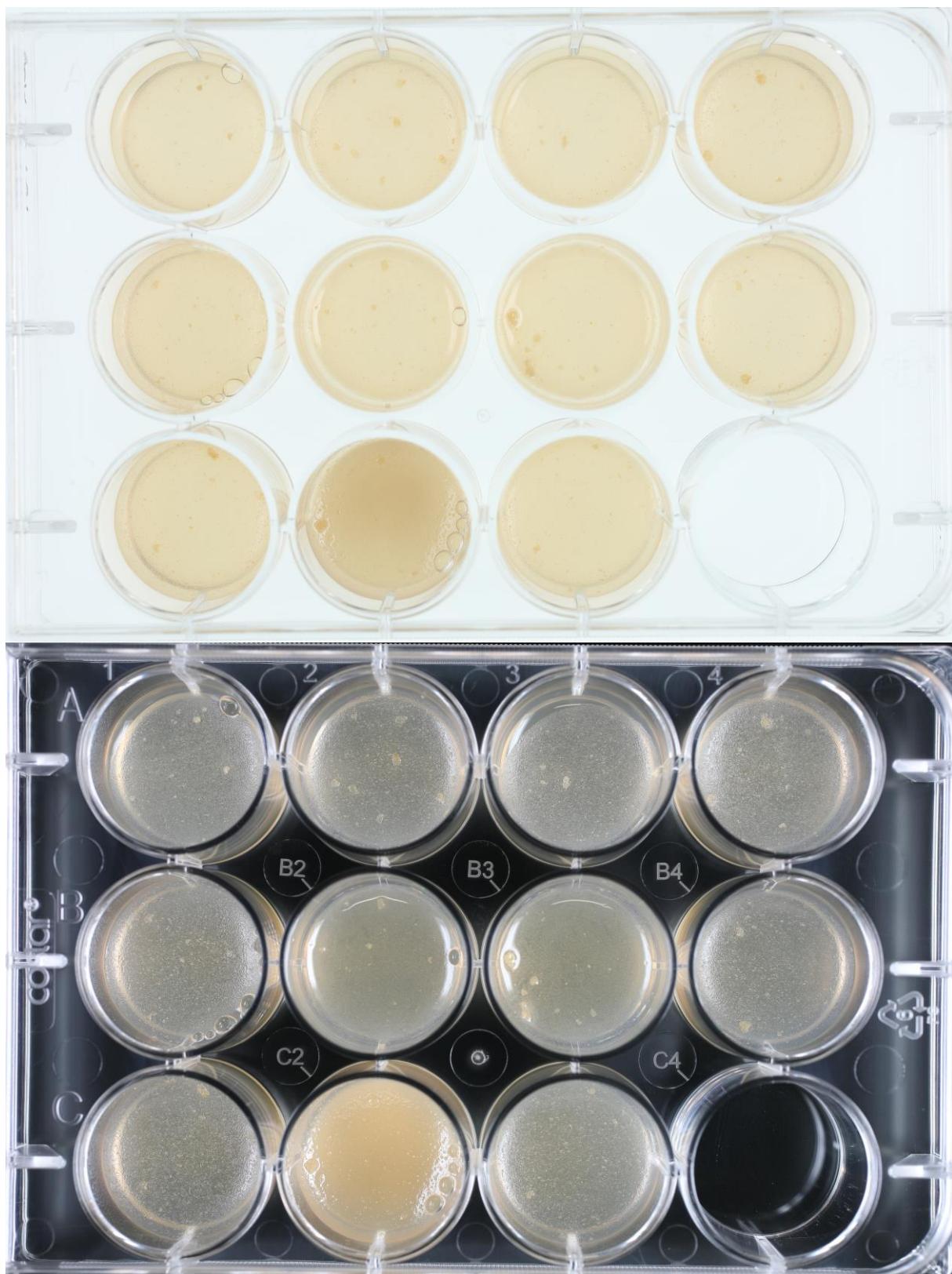
(ISP6, ISP7)



(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%)**

