

Compendium of Actinobacteria from Dr. Joachim M. Wink
University of Braunschweig

Strain		DSM 25785
Genus		<i>Knoellia</i>
Species		<i>flava</i>
Status		
Risk group		L1
Type strain		TL1, CGMCC 1.10749, KCTC 19810
Genbank accession number		16S rRNA gene: HQ401007
Reference		
Author		Yu, X., Du, Y., Wang, G.
Title		<i>Knoellia flava</i> sp. nov., isolated from pig manure
Journal		Int J Syst Evol Microbiol
Volume		62 (Pt2)
Page		384-389
Year		2012
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony colour/R	1002 Sand yellow
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Sparse
Agar	ISP 3 - R	1003 Signal yellow
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	None
Agar	ISP 4 - R	-
Agar	ISP 4 - A	-
Agar	ISP 4 - S	-
Agar	ISP 5 - G	Sparse
Agar	ISP 5 - R	1001 Beige
Agar	ISP 5 - A	None
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	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	8003 Clay brown
Agar	ISP 7 - A	None
Agar	ISP 7 - S	8003 Clay brown
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	8001 Ochre brown

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Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	8001 Ochre brown
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	1015 Light ivory
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		2,5%
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	0
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	2
Api zym	Valine arylamidase	0
Api zym	Cystine arylamidase	0
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	0
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	1
Api zym	beta glucuronidase	1
Api zym	alpha glucosidase	4
Api zym	beta glucosidase	3
Api zym	N-acetyl-beta-glucoseamidase	0
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	-
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



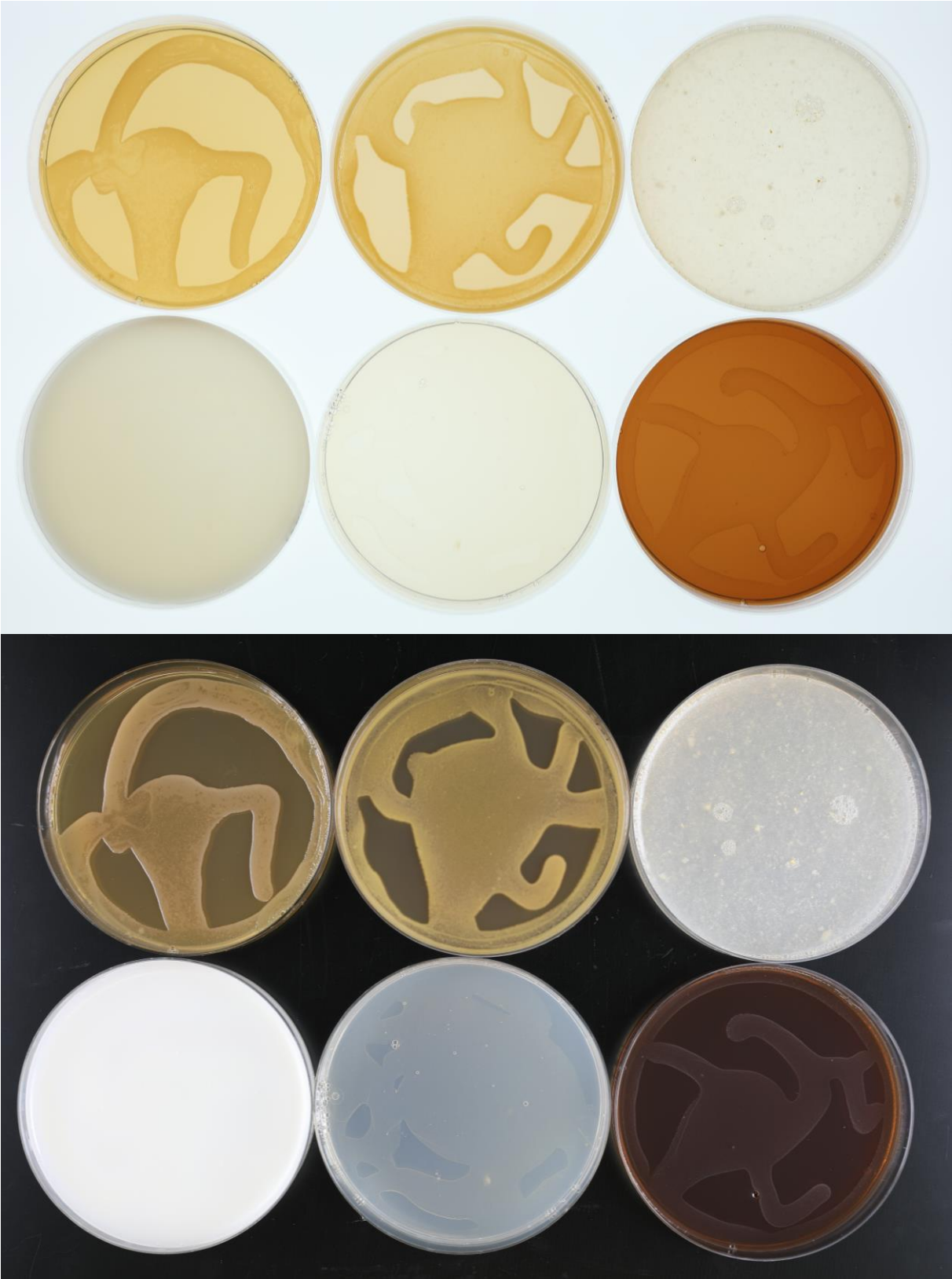
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

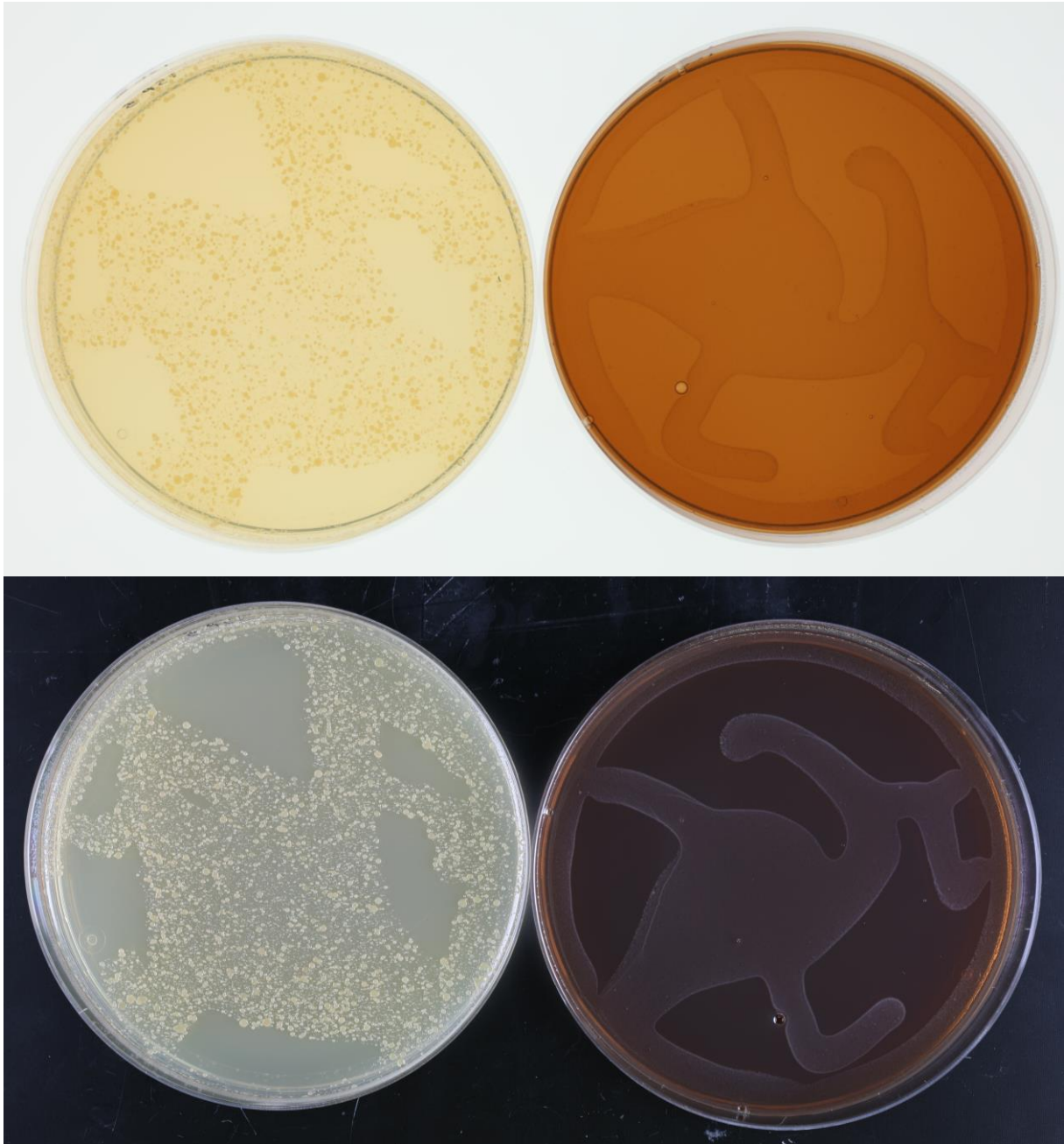


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

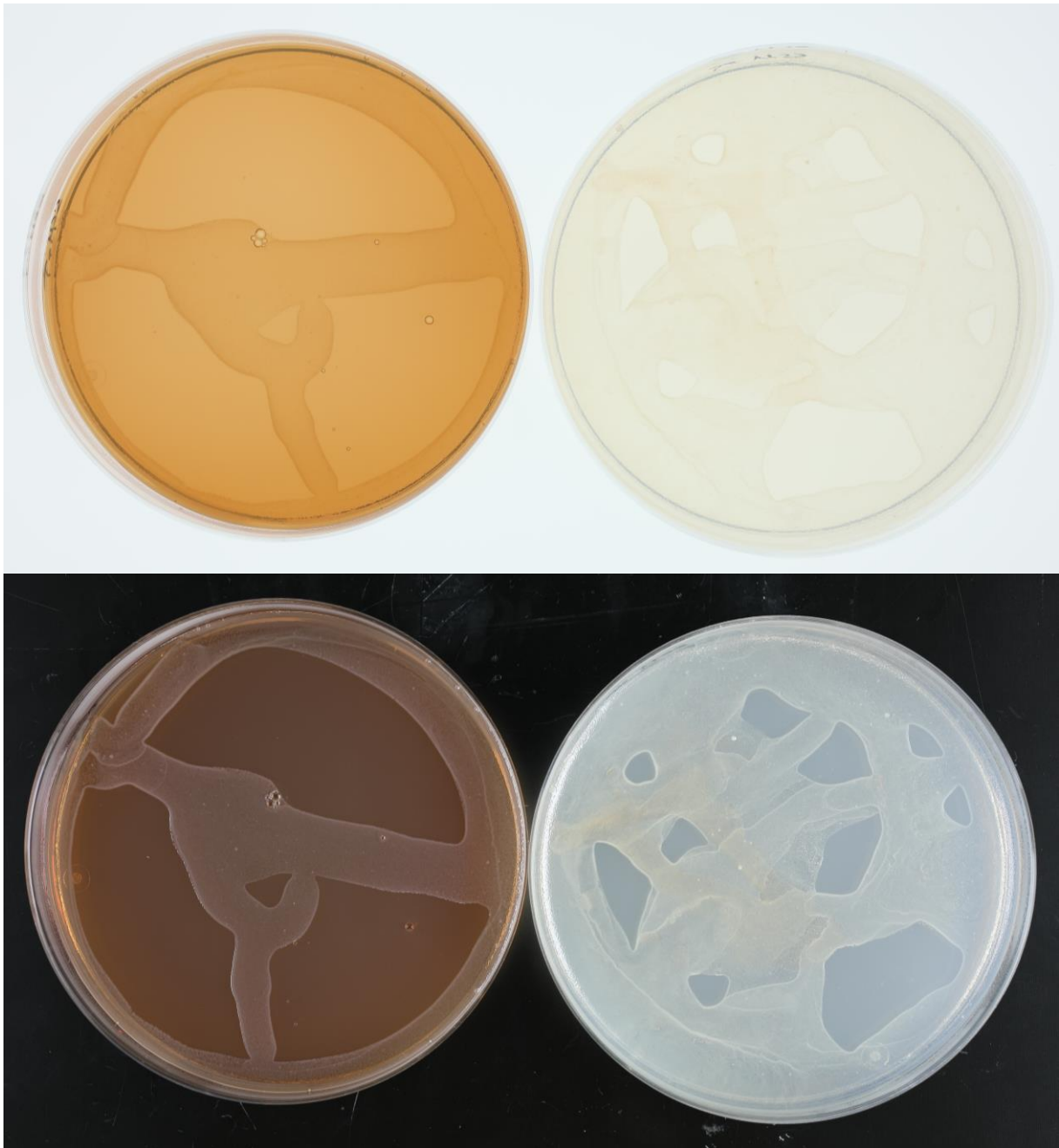
Plates (92, ISP2, ISP3, ISP4, ISP5, ISP7)



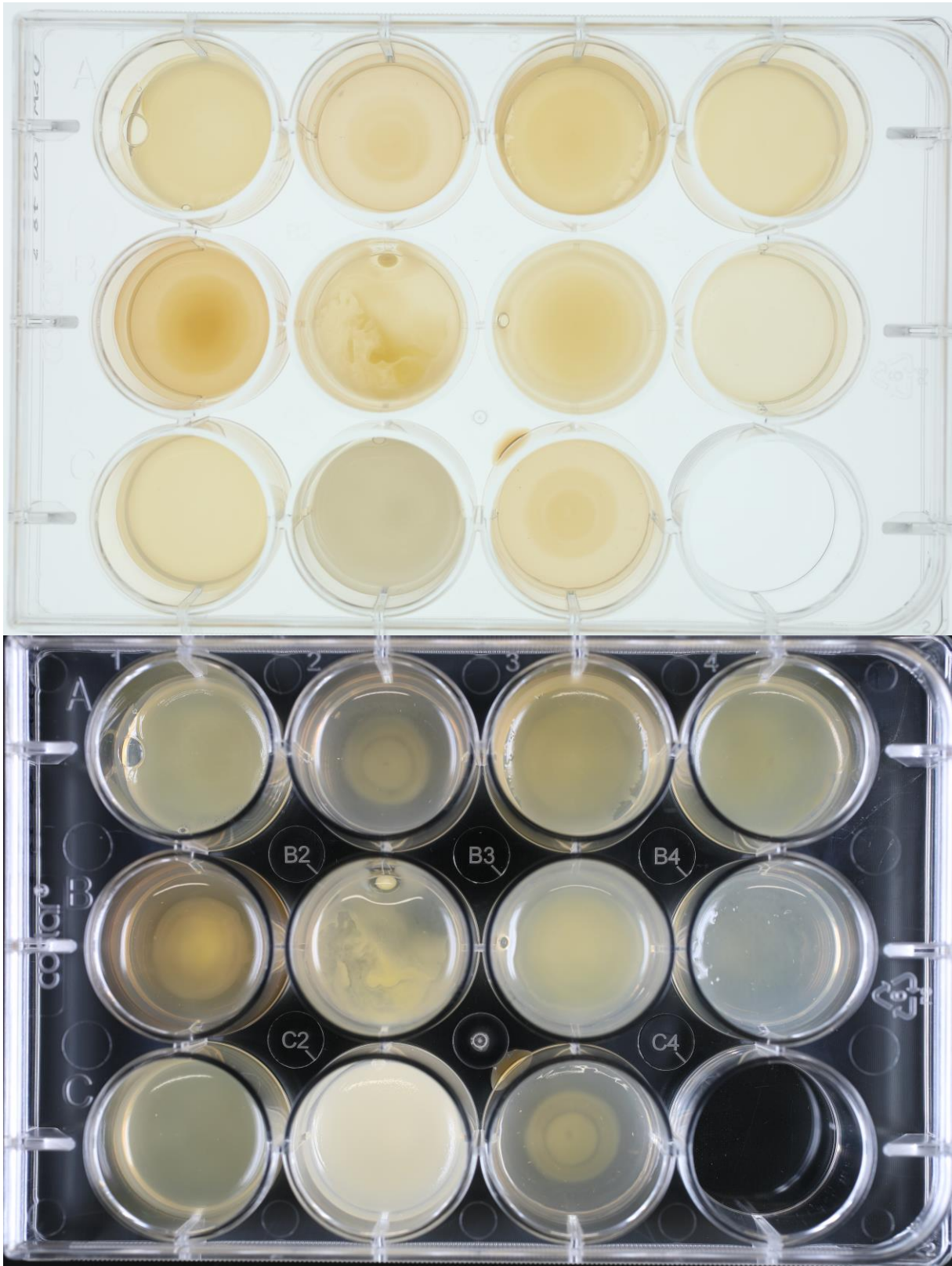
(ISP6, ISP7)



(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%)

