

Strain		DSM 45356
Genus		<i>Longispora</i>
Species		<i>fulva</i>
Status		
Risk group		L1
Type strain		KZ0017, JCM 31208, NBRC 105670
Genbank accession numbers		16S rRNA gene: AB489859
Reference		
Author		Shiratori-Takano, H., Yamada, K., Beppu, T., Ueda, K.
Title		Longispora fulva sp. nov., isolated from a forest soil, and emended description of the genus Longispora
Journal		Int J Syst Evol Microbiol
Volume		61 (Pt4)
Page		804-809
Year		2011
Author		Piao, C., Jin, L., Zhao, J., Liu, C., Zhao, Y., Wang, X., Xiang, W.
Title		Longispora urticae sp. nov., isolated from rhizosphere soil of Urtica urens L., and emended descriptions of the species Longisporaalbida and Longisporafulva
Journal		Int J Syst Evol Microbiol
Volume		67 (10)
Page		4228-4234
Year		2017
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	8008 Olive brown, 8014 Sepia brown
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	8001 Ochre brown
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1001 Beige, 1027 Curry, 1005 Honey yellow
Agar	ISP 3 - A	None
Agar	ISP 3 - S	1024 Ochre yellow
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	7005 Mouse grey, 1020 Olive yellow, 1016 Sulfur yellow
Agar	ISP 4 - A	None

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Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	7002 Olive grey, 1015 Light ivory
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Sparse
Agar	ISP 6 - R	7011 Iron grey, 7002 Olive grey
Agar	ISP 6 - A	None
Agar	ISP 6 - S	1024 Ochre yellow
Agar	ISP 7 - G	Sparse
Agar	ISP 7 - R	1001 Beige
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Sparse
Agar	suter with tyrosine - R	1001 Beige
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Sparse
Agar	suter without tyrosine - R	1001 Beige, 7002 Olive grey
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		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	1
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	1

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Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	5
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	3
Api zym	Naphtol-AS-BI-phosphohydrolase	2
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	2
Api zym	alpha glucosidase	0
Api zym	beta glucosidase	1
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	4
Api zym	alpha fucosidase	1
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



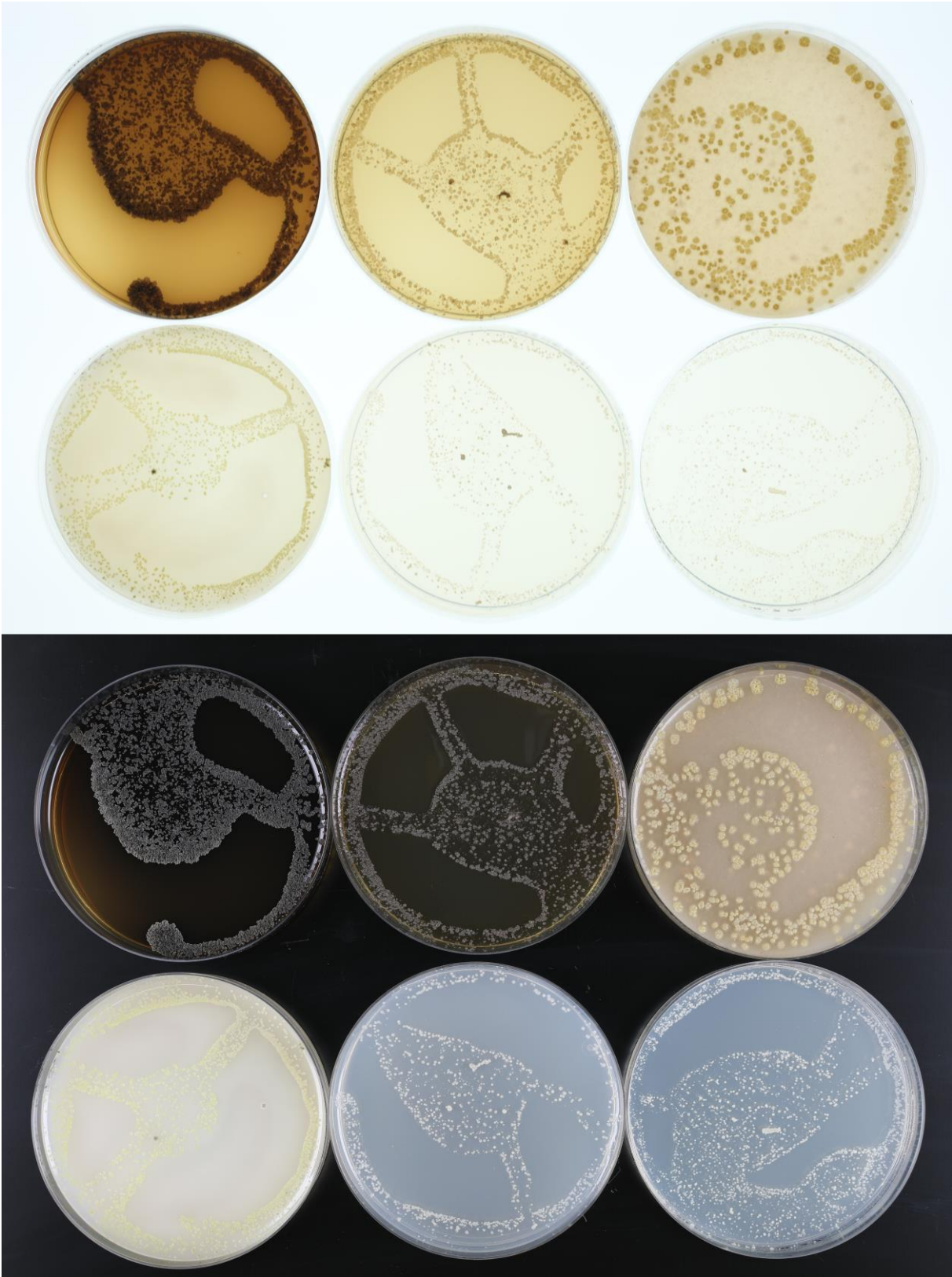
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

APIzym

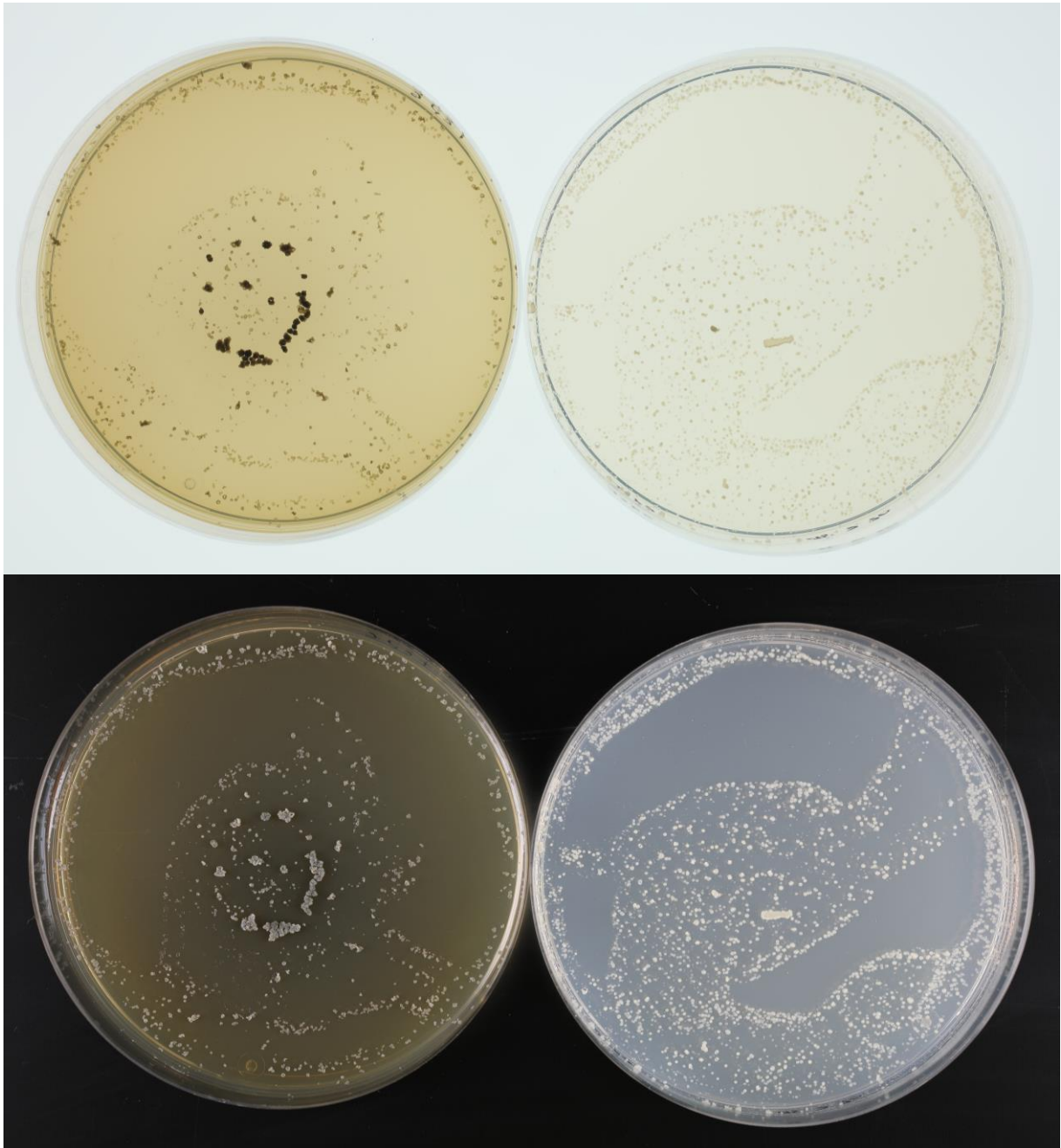


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

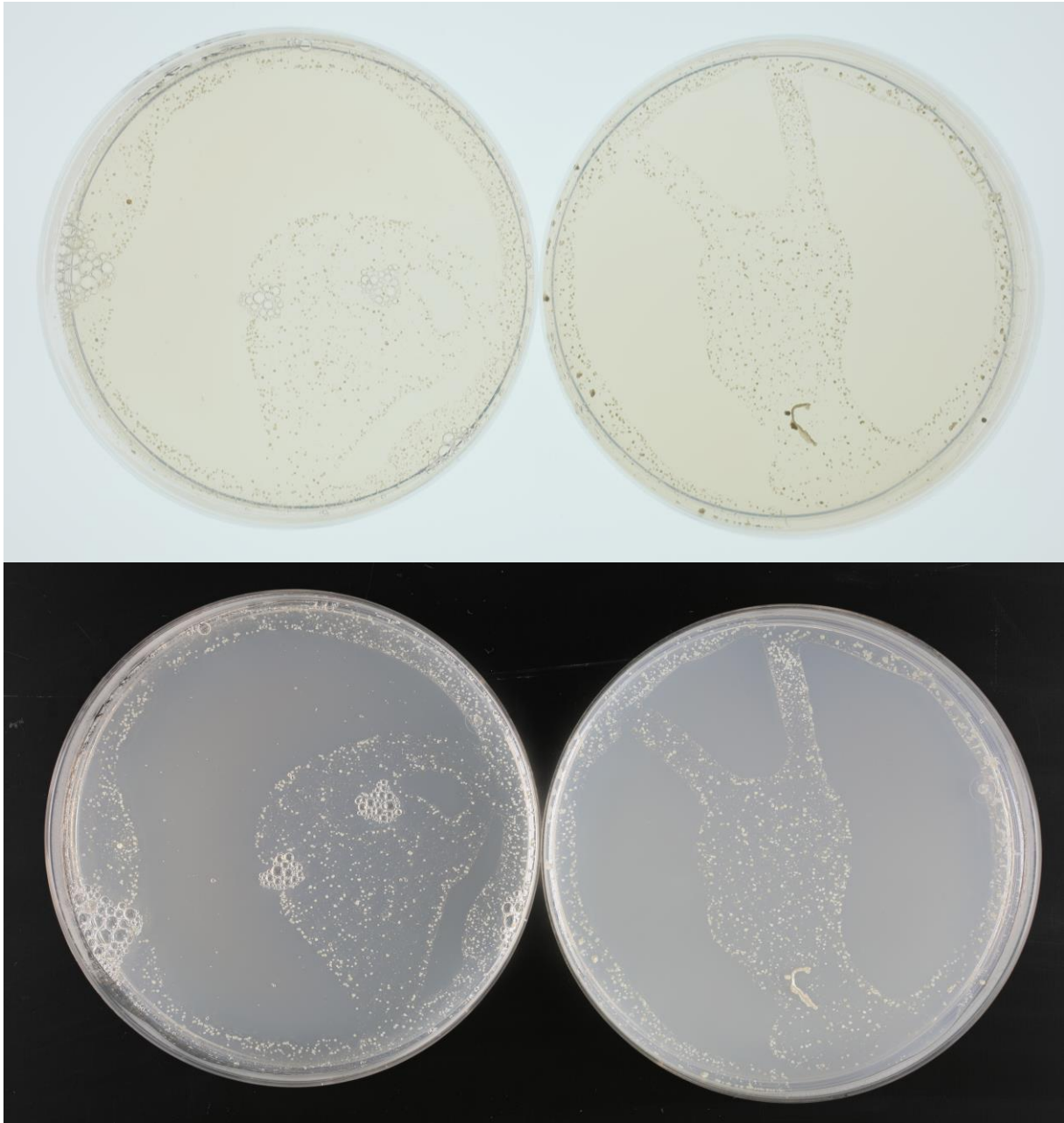
Plates (553, ISP2, ISP3, ISP4, ISP5, ISP7)



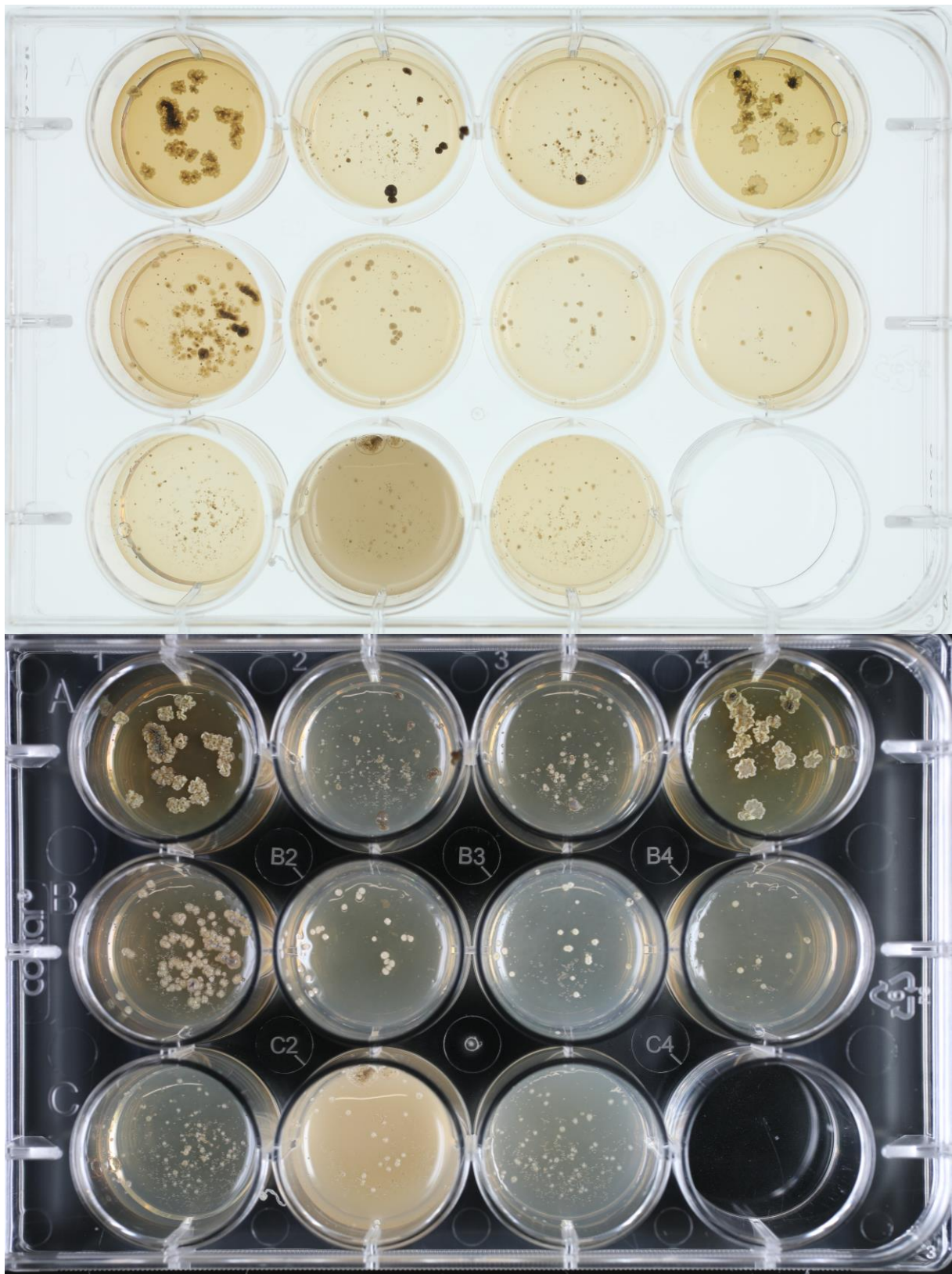
(ISP6, ISP7)



(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%)**

