Strain		DSM 45387
Genus		***Plantactinospora***
Species		***endophytica***
Status		
Risk group		L1
Type strain		CCTCC AA 209047, JCM 31039, NBRC 110450, YIM 68255
Genbank accession number		16S rRNA gene: GQ494033
Reference		
Author		Zhu, W. Y., Zhao, L. X., Zhao, G. Z., Duan, X. W., Qin, S., Li, J., Xu, L. H., Li, W. J.
Title		Plantactinospora endophytica sp. nov., an actinomycete isolated from Camptotheca acuminata Decne., reclassification of Actinaurispora siamensis as Plantactinospora siamensis comb. nov. and emended descriptions of the genus Plantactinospora and Plantactinospora mayteni
Journal		Int J Syst Evol Microbiol
Volume		62 (Pt10)
Page		2435-2442
Year		2012
Morphology		
Agar	ISP 2 - growth/G	None
Agar	ISP 2 - colony colour/R	-
Agar	ISP 2 - aerial mycelium/A	-
Agar	ISP 2 - soluble pigment/S	-
Agar	ISP 3 - G	None
Agar	ISP 3 - R	-
Agar	ISP 3 - A	-
Agar	ISP 3 - S	-
Agar	ISP 4 - G	None
Agar	ISP 4 - R	-
Agar	ISP 4 - A	-
Agar	ISP 4 - S	-
Agar	ISP 5 - G	None
Agar	ISP 5 - R	-
Agar	ISP 5 - A	-
Agar	ISP 5 - S	-
Agar	ISP 6 - G	Sparse
Agar	ISP 6 - R	1006 maize yellow

Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	8001 ochre brown, 1006 maize yellow
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	8003 clay brown
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	8003 clay brown
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		0
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	
sodium chloride tolerance		0%
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)	0
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	0
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	2
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	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	

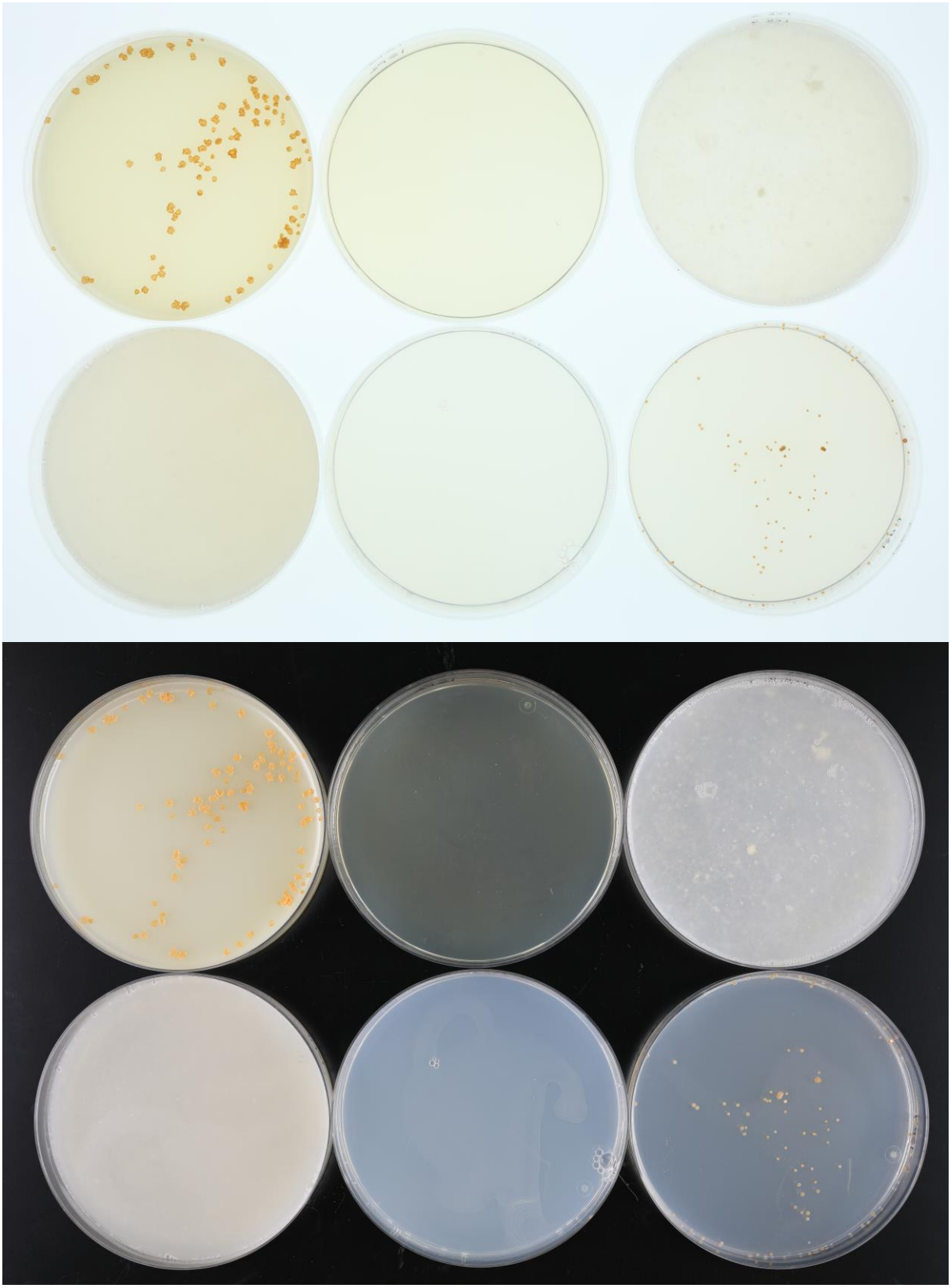
APIcoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

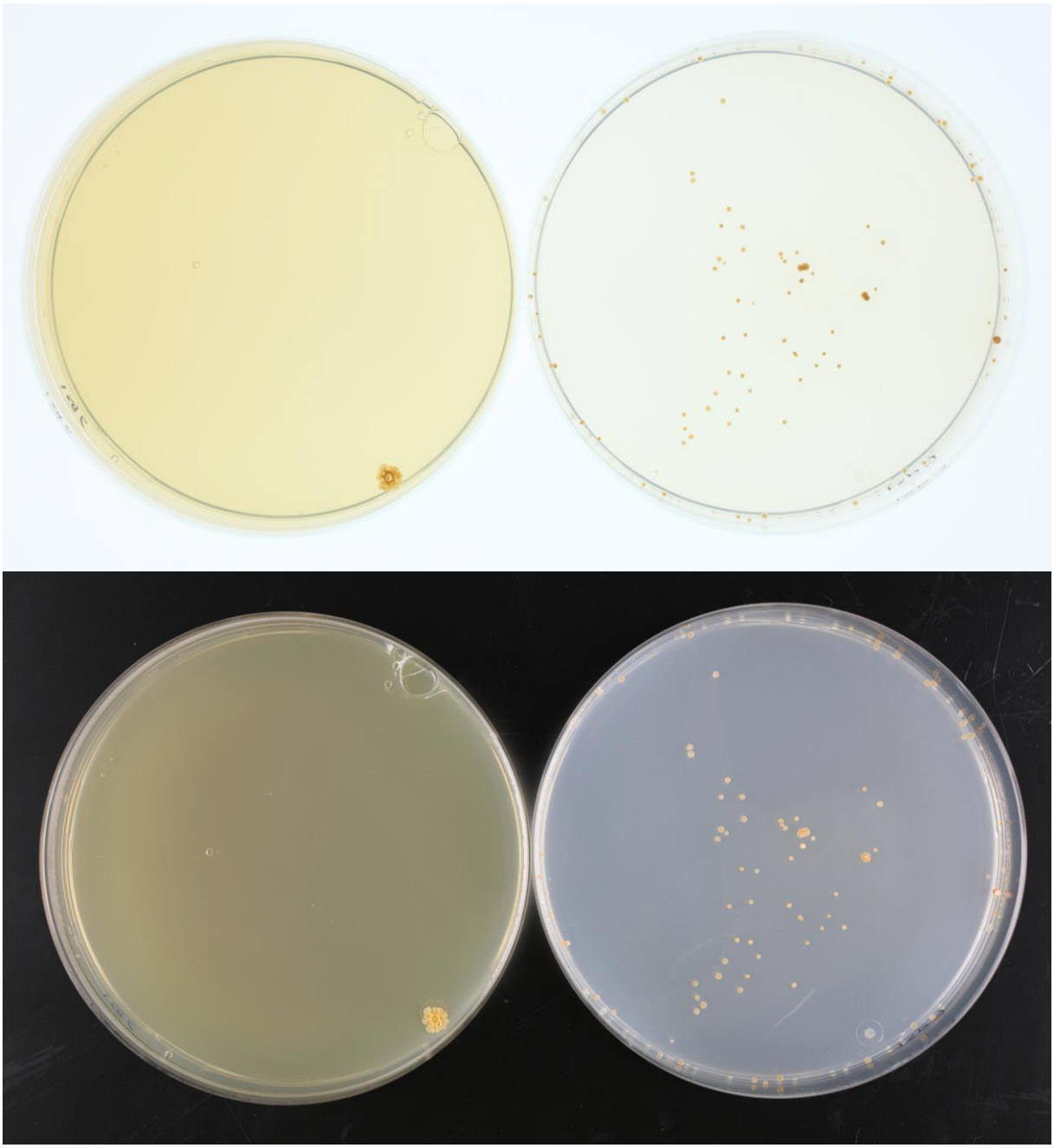
APIzym

Abbildung 2: Apizym-Teststreifen mit Keim DSM.

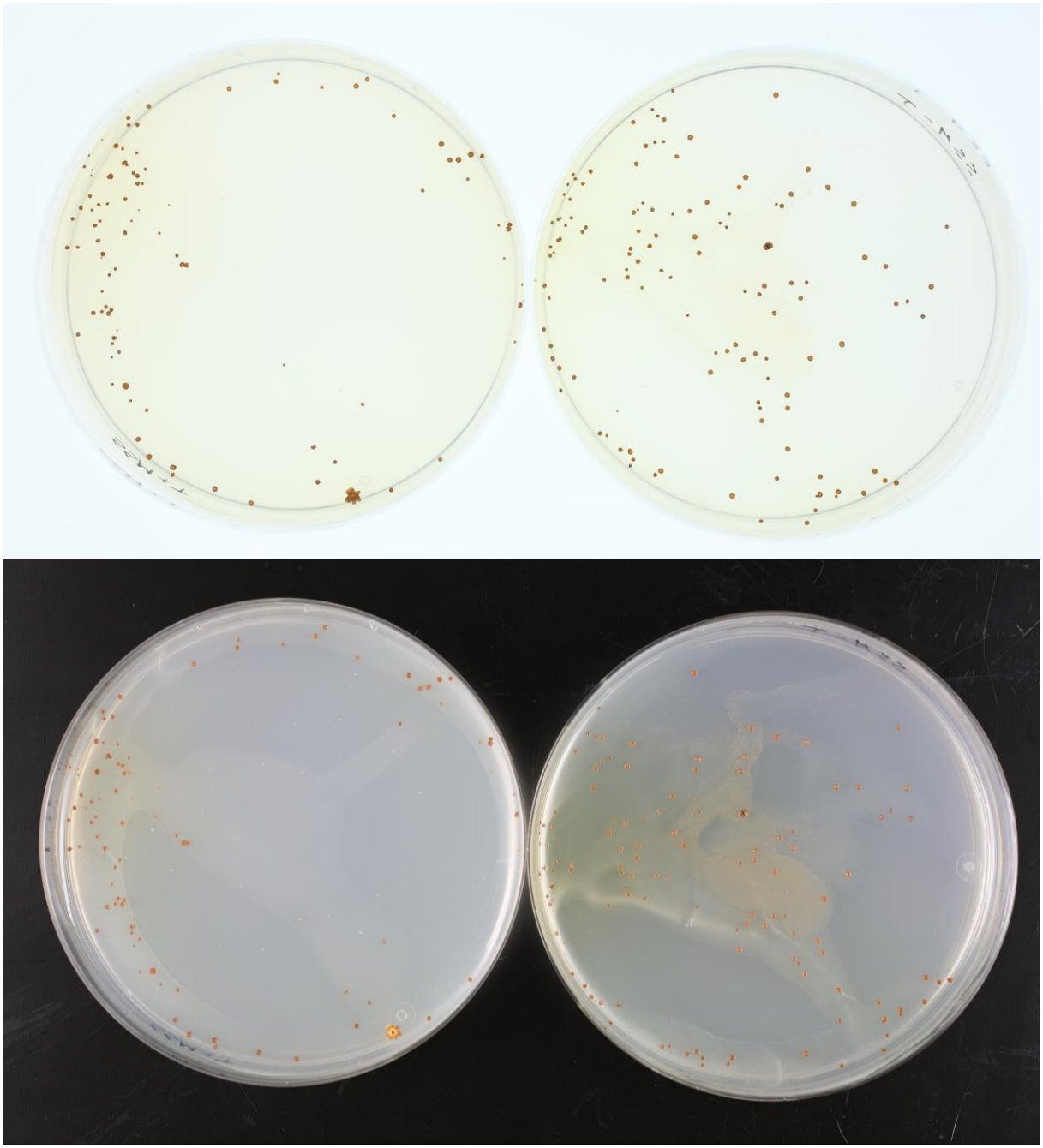
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



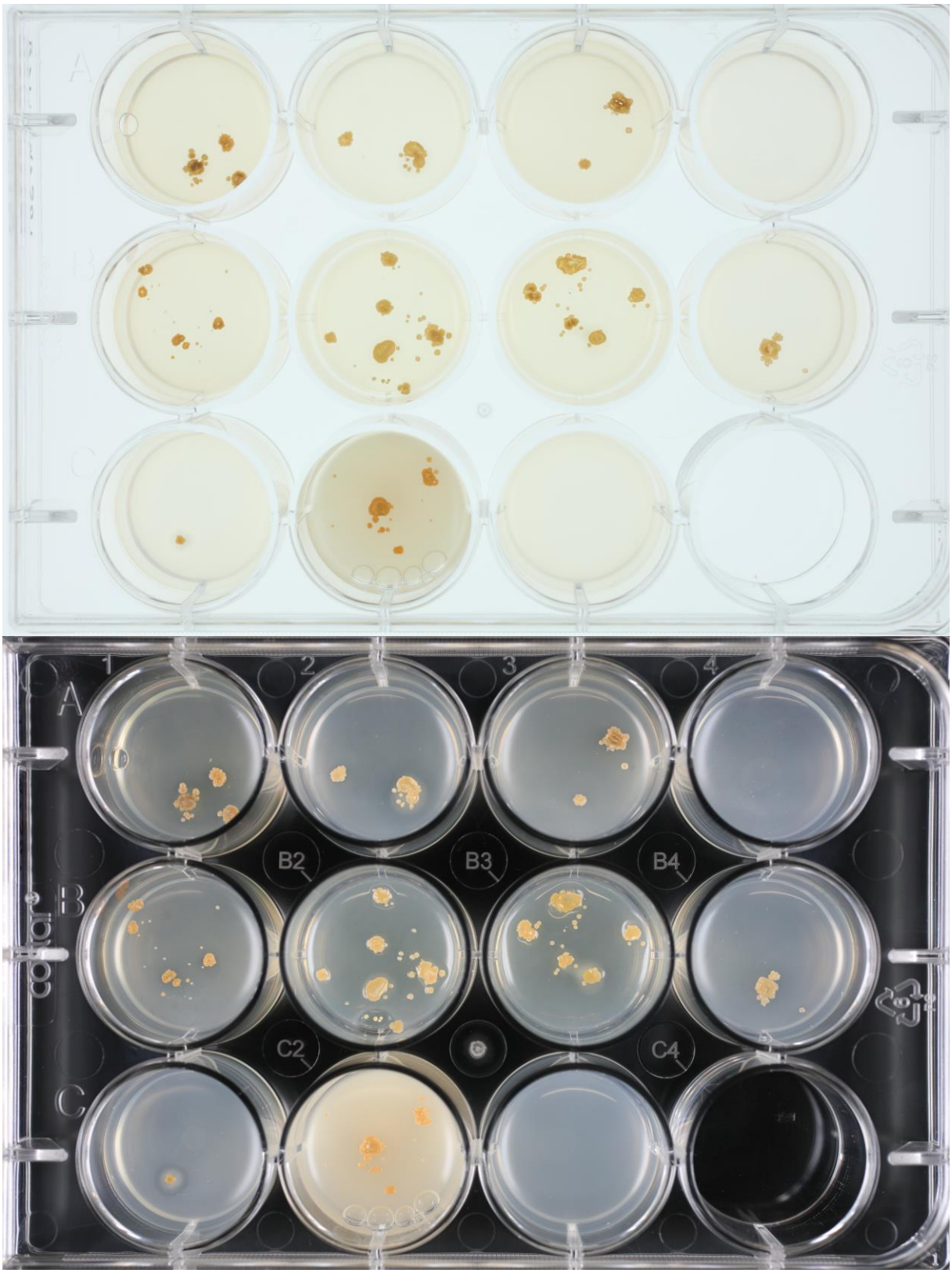
(ISP6, ISP7)



(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%)