

Strain		DSM 105122
Genus		<i>Actinomadura</i>
Species		<i>logoneensis</i>
Status		
Risk group		1 (provisional classification by DSMZ)
Type strain		NEAU-G17, CGMCC 4.7411
Genbank accession numbers		16S rRNA gene: MG189967 whole genome shotgun sequence: QURH00000000
Reference		
Author		Shi, L., Han, L., Guo, X., Zhao, J., Wang, J., Wang, H., Jiang, S., Xiang, W., Wang, X.
Title		<i>Actinomadura logoneensis</i> sp. nov., a novel actinomycete isolated from the soil
Journal		International Journal of Systematic and Evolutionary Microbiology
Volume		
Page		
Year		2019
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	1001 Beige, 1015 Light ivory
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	None
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	1015 Light ivory
Agar	ISP 3 - A	None
Agar	ISP 3 - S	1002 Sand yellow
Agar	ISP 4 - G	Sparse
Agar	ISP 4 - R	1013 Oyster white
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Sparse-good
Agar	ISP 5 - R	1013 Oyster white
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	Good
Agar	ISP 6 - R	1024 Ochre yellow
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Sparse-good

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Agar	ISP 7 - R	1001 Beige
Agar	ISP 7 - A	None
Agar	ISP 7 - S	1014 Ivory
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	1001 Beige, 1015 Light ivory
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Sparse
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		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	2
Api zym	Esterase (C4)	4
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	2
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	5
Api zym	Cystine arylamidase	2
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	3
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	2
Api zym	beta glucuronidase	0

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Api zym	alpha glucosidase	5
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	5
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	0
Api coryne	nitrate reduction	+
Api coryne	Pyrazinamidase	-
Api coryne	α 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



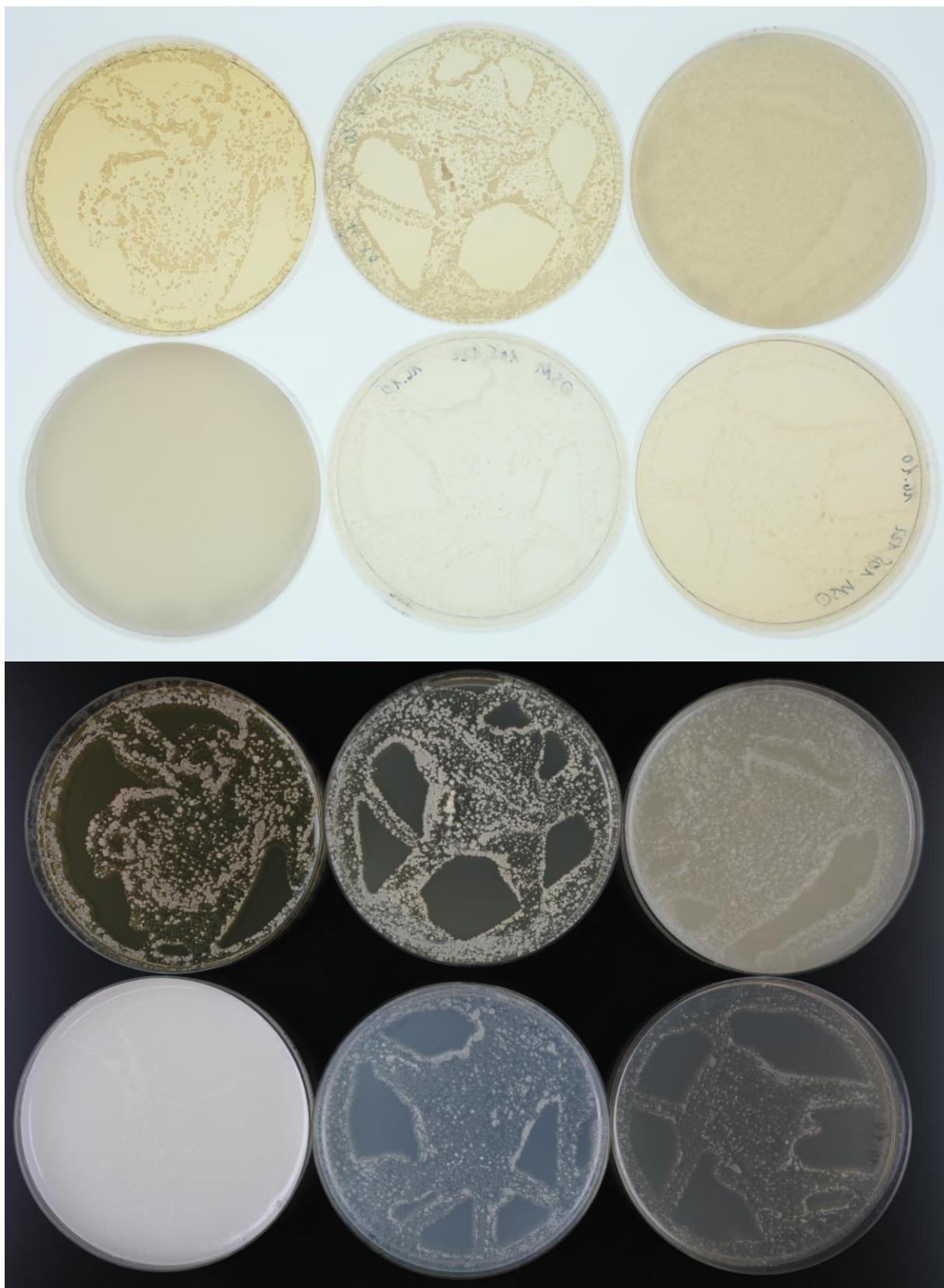
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

Apizym

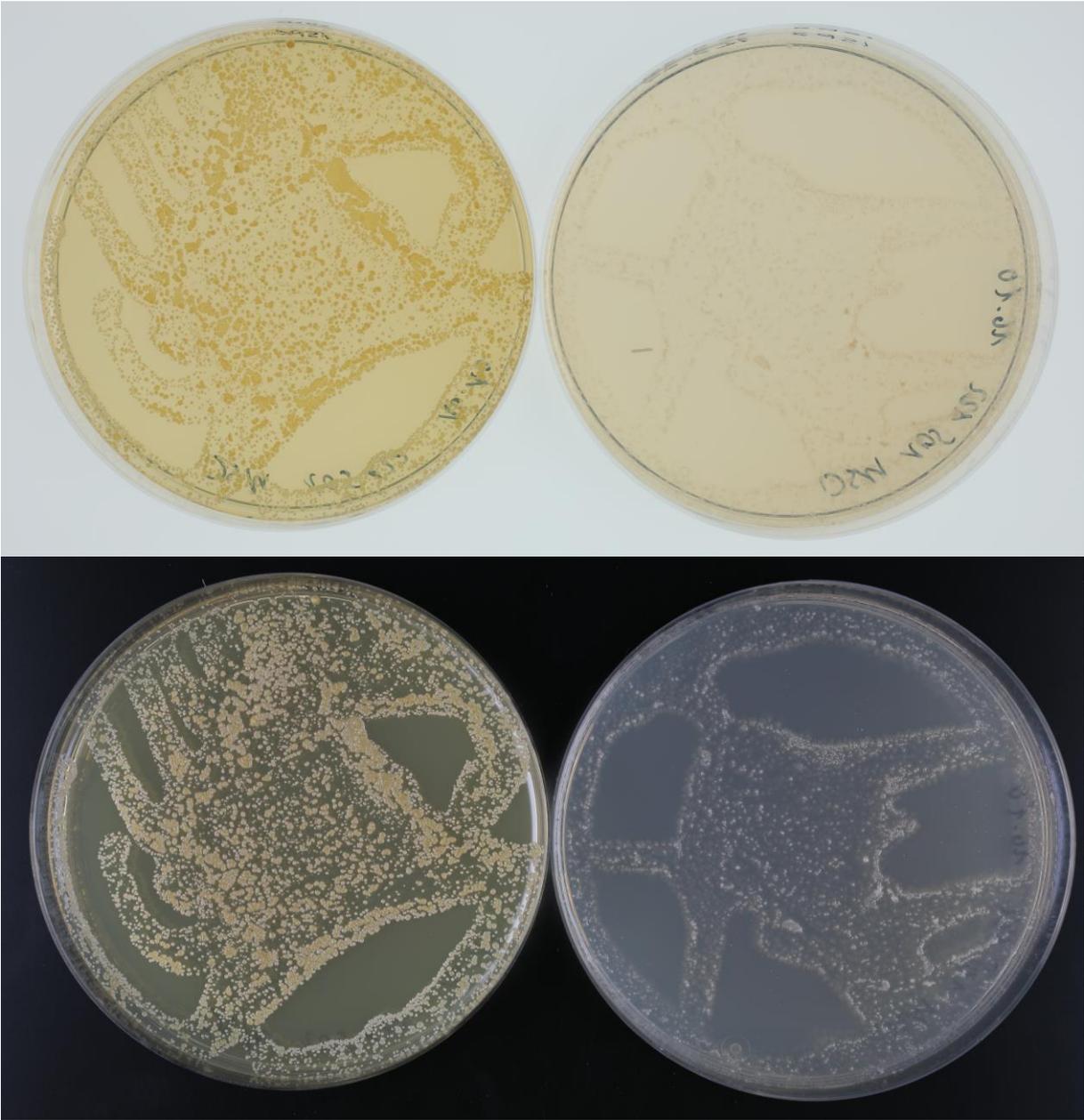


Abbildung 2: Apizym-Teststreifen mit Keim DSM.

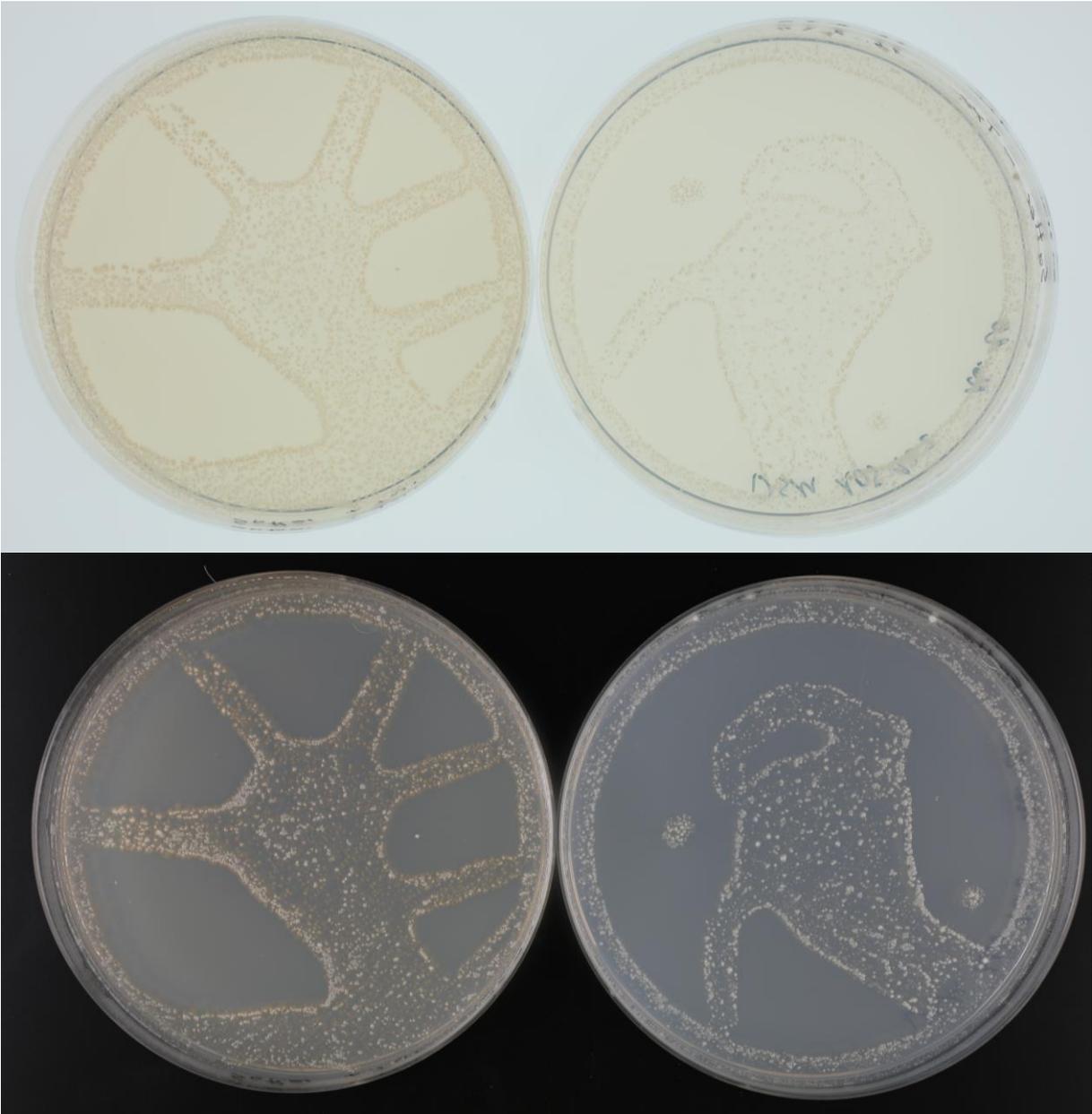
Plates (BHI, ISP2, ISP3, ISP4, ISP5, ISP7)



(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%)

