Strain		**DSM 42018**
Genus		***Streptomyces***
Species		**sp.**
Status		
Risk group		**L1**
Type strain		**UTMC 1154**
Reference		
Author		**Under submission**
Title		
Journal		
Volume		
Page		
Year		
Morphology		
Agar	**ISP 2 - growth/G**	**good**
Agar	**ISP 2 - colony color/R**	**ivory (1014)**
Agar	**ISP 2 - aerial mycelium/A**	**none**
Agar	**ISP 2 - soluble pigment/S**	**none**
Agar	**ISP 3 - G**	**good**
Agar	**ISP 3 - R**	**light ivory (1015)**
Agar	**ISP 3 - A**	**none**
Agar	**ISP 3 - S**	**none**
Agar	**ISP 4 - G**	**good**
Agar	**ISP 4 - R**	**light ivory (1015) / maize yellow (1006)**
Agar	**ISP 4 - A**	**none**
Agar	**ISP 4 - S**	**none**
Agar	**ISP 5 - G**	**good**
Agar	**ISP 5 - R**	**ivory (1014)**
Agar	**ISP 5 - A**	**oyster white (1013)**
Agar	**ISP 5 - S**	**none**
Agar	**ISP 6 - G**	**good**
Agar	**ISP 6 - R**	**light ivory (1015)**
Agar	**ISP 6 - A**	**none**
Agar	**ISP 6 - S**	**none**
Agar	**ISP 7 - G**	**good**
Agar	**ISP 7 - R**	**ivory (1014)**
Agar	**ISP 7 - A**	**none**
Agar	**ISP 7 - S**	**none**
Agar	**suter with tyrosine - G**	**good**
Agar	**suter with tyrosine - R**	**ivory (1014)**
Agar	**suter with tyrosine - A**	**oyster white (1013)**
Agar	**suter with tyrosine - S**	**none**
Agar	**suter without tyrosine - G**	**good**

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Agar	**suter without tyrosine - R**	**ivory (1014)**
Agar	**suter without tyrosine - A**	**oyster white (1013)**
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**	**5**
Api zym	**Esterase (C4)**	**2**
Api zym	**Esterase Lipase (C8)**	**2**
Api zym	**Lipase (C14)**	**1**
Api zym	**Leucin arylamidase**	**5**
Api zym	**Valine arylamidase**	**3**
Api zym	**Cystine arylamidase**	**2**
Api zym	**Trypsin**	**5**
Api zym	**Chymotrypsin**	**1**
Api zym	**Phosphatase acid**	**5**
Api zym	**Naphtol-AS-BI-phosphohydrolase**	**5**
Api zym	**alpha galactosidase**	**0**
Api zym	**beta galactosidase**	**3**
Api zym	**beta glucuronidase**	**0**
Api zym	**alpha glucosidase**	**4**
Api zym	**beta glucosidase**	**0**
Api zym	**N-acetyl-beta-glucoseamidase**	**0**
Api zym	**alpha mannosidase**	**4**
Api zym	**alpha fucosidase**	**0**
Api coryne	**nitrate reduction**	**-**
Api coryne	**Pyraziamidase**	**-**
Api coryne	**Pyrrolidonyl arylamidase**	**+**

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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**	**-**

Apicoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 42018.

Apizym

Abbildung 2: Apizym-Teststreifen mit Keim DSM 42018.

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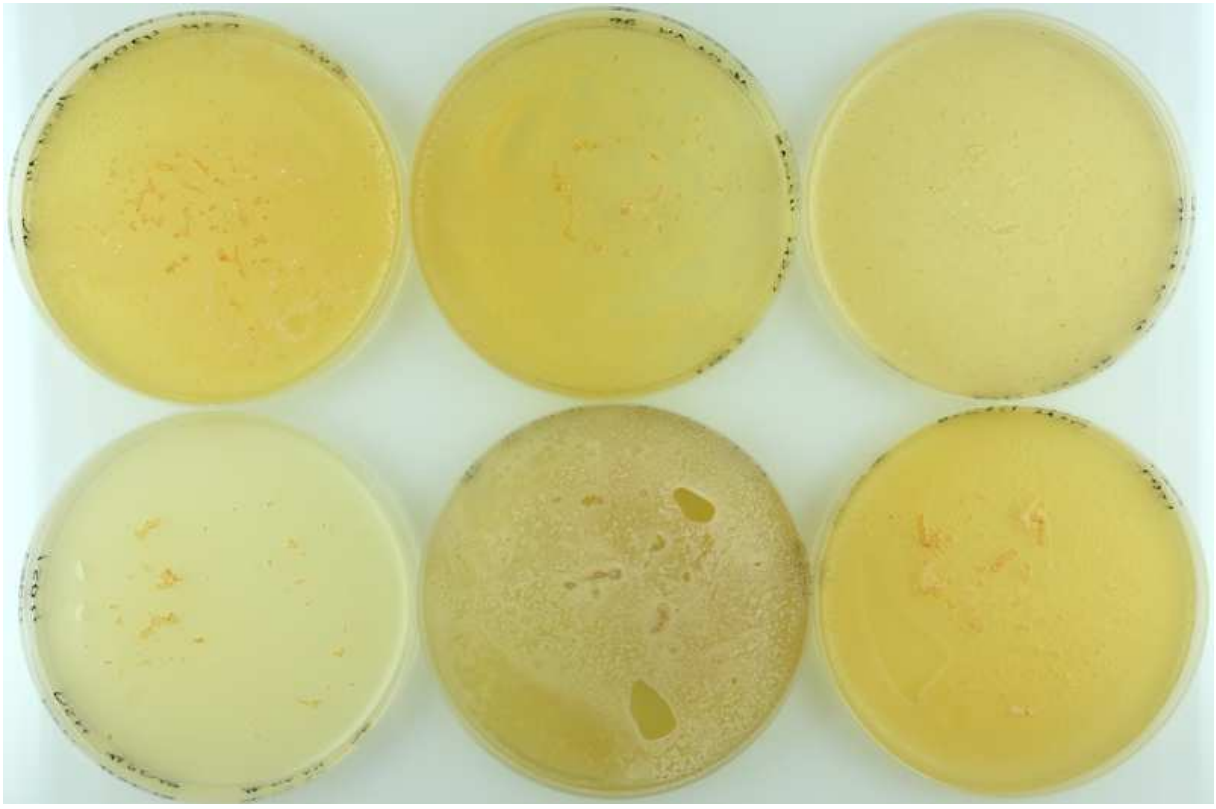
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)



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(ISP6, SSM+T, SSM-T)

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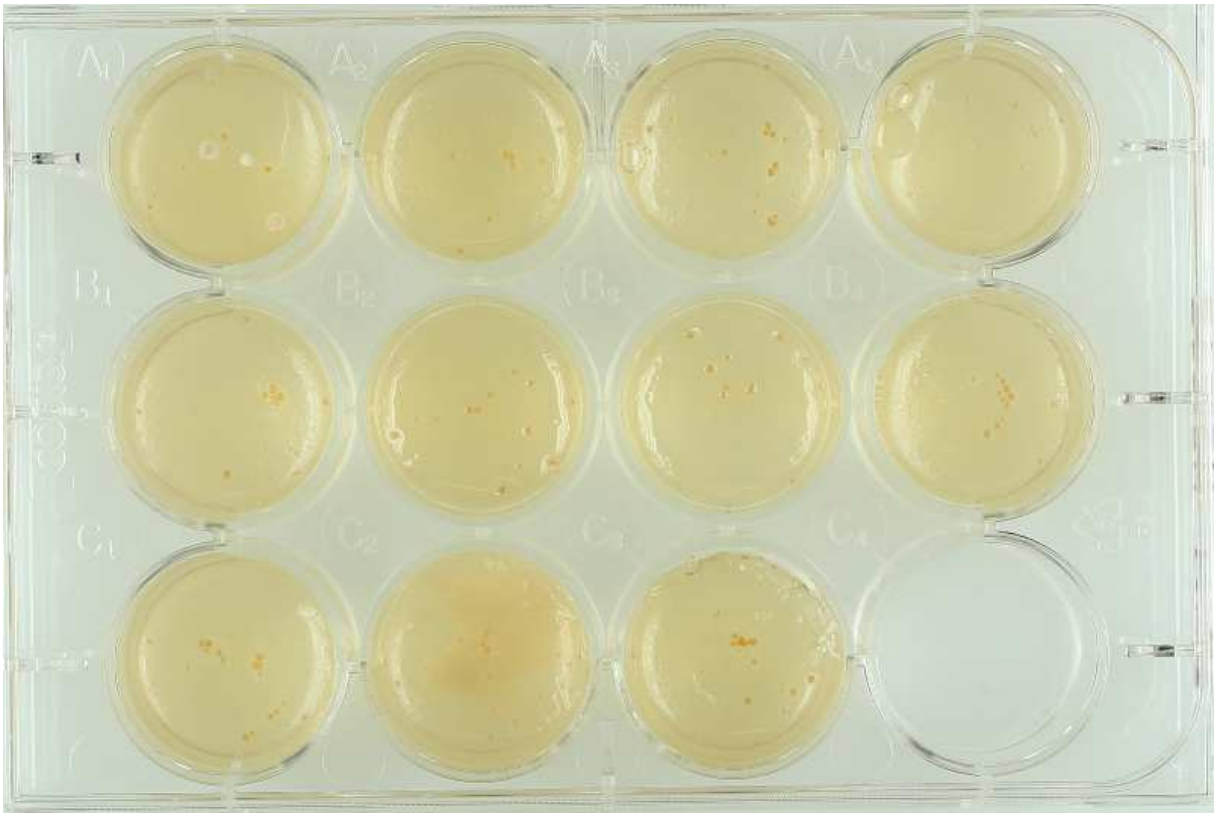
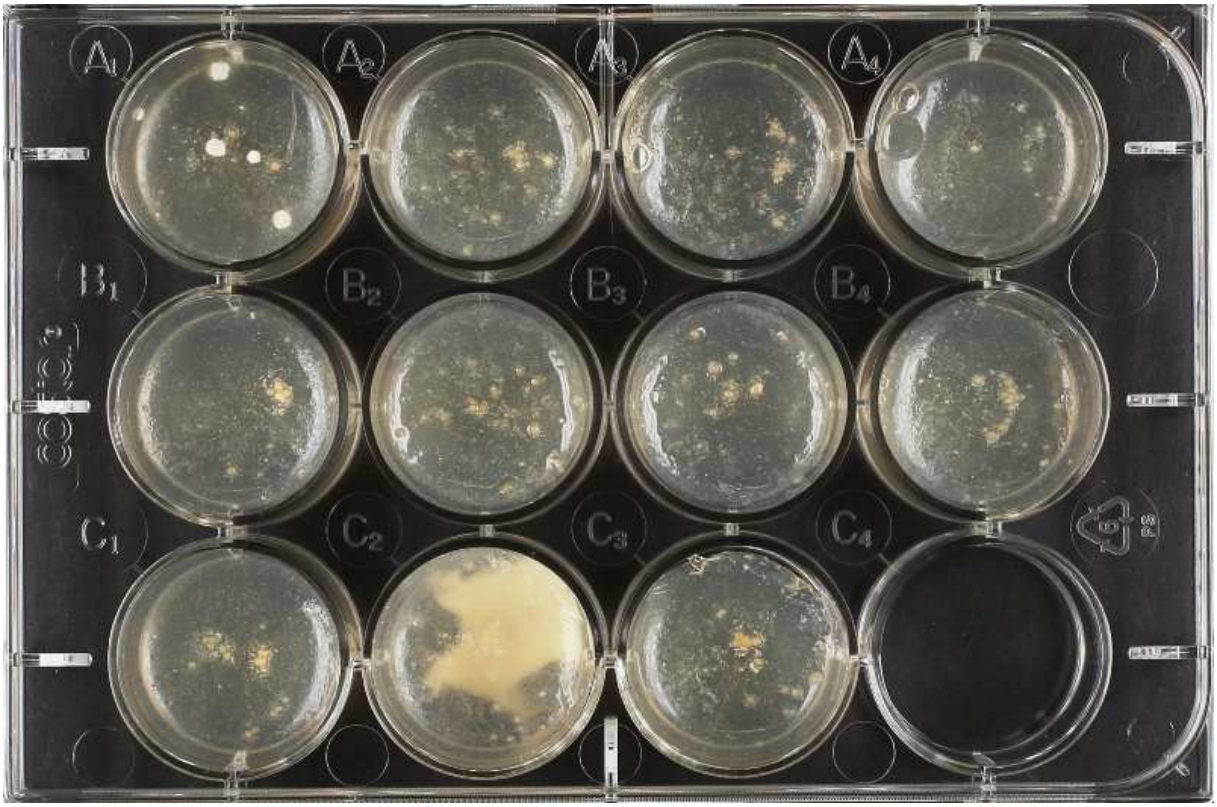
Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose)





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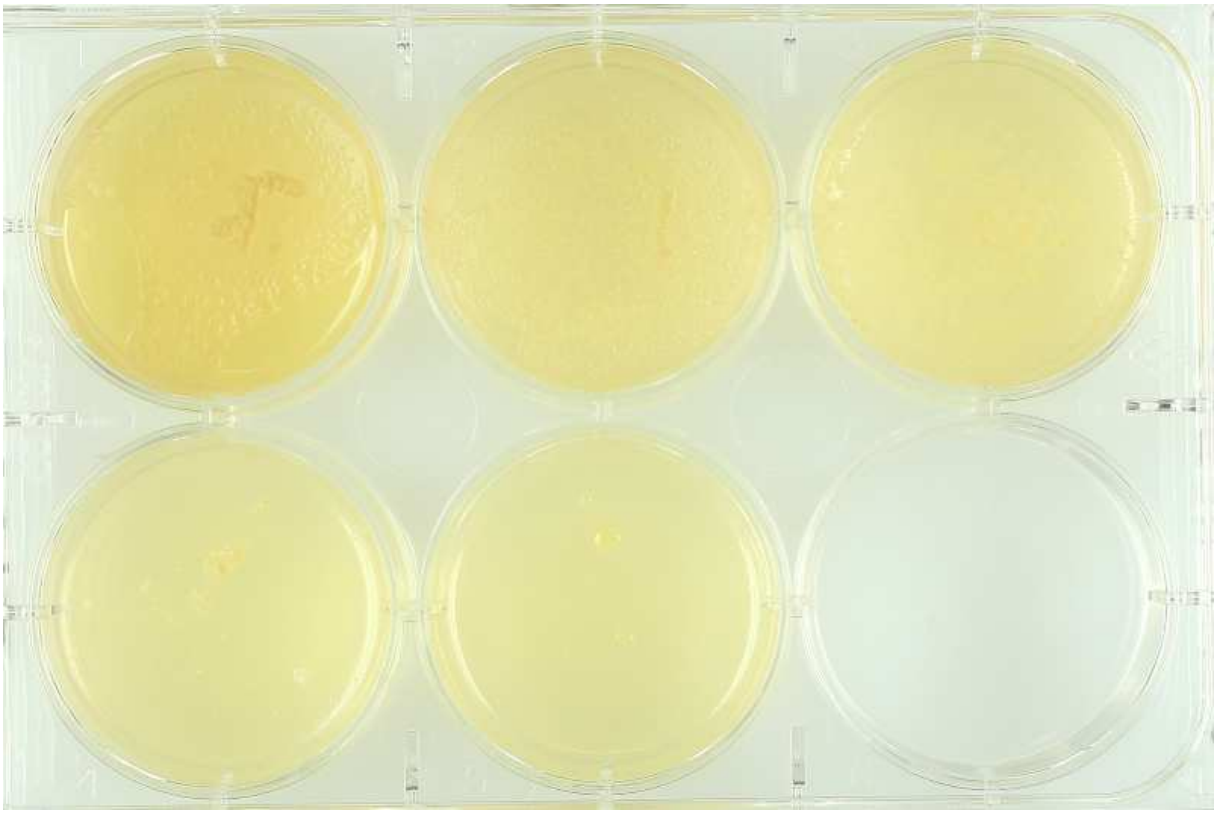
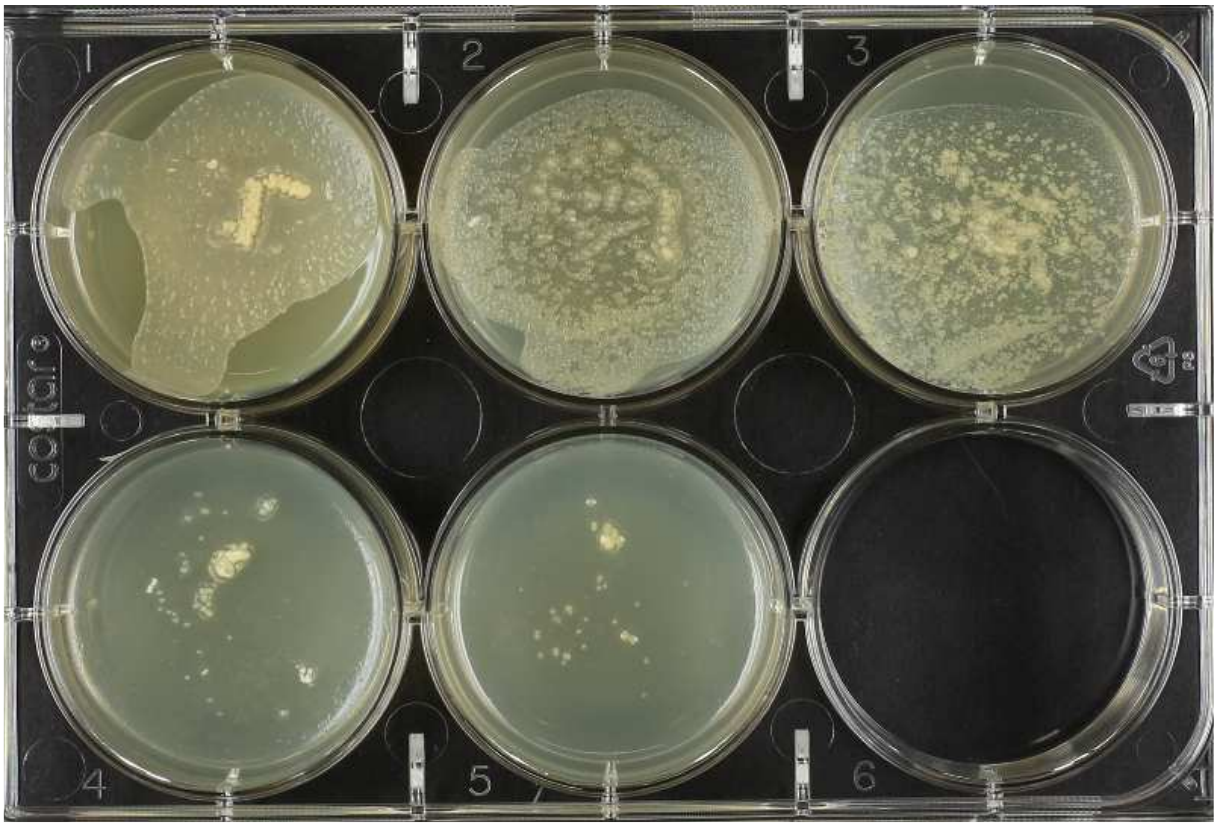
Sodium chloride tolerance test (from top left to bottom right: 0%, 2,5%, 5%, 7,5%, 10%)





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