Strain		**DSM 42010**
Genus		***Streptomyces***
Species		***samsunensis***
Status		
Risk group		**L1**
Type strain		**M1463, NRRL B-24803**
Reference		
Author		**Sazak, A., Sahin, N., Güven, K., Isik, K., Goodfellow, M.**
Title		***Streptomyces samsunensis* sp. nov., a member of the *Streptomyces violaceusniger* clade isolated from the rhizosphere of *Robinia pseudoacacia*.**
Journal		***Int J Syst Evol Microbiol***
Volume		**61 (Pt 6)**
Page		**1309-1314**
Year		**2011**
Morphology		
Agar	**ISP 2 - growth/G**	**good**
Agar	**ISP 2 - colony color/R**	**n. d.**
Agar	**ISP 2 - aerial mycelium/A**	**slate grey (7015) / stone grey (7030)**
Agar	**ISP 2 - soluble pigment/S**	**sand yellow (1002)**
Agar	**ISP 3 - G**	**good**
Agar	**ISP 3 - R**	**n. d.**
Agar	**ISP 3 - A**	**platinum grey (7036) / dusty grey (7037)**
Agar	**ISP 3 - S**	**none**
Agar	**ISP 4 - G**	**good**
Agar	**ISP 4 - R**	**n. d.**
Agar	**ISP 4 - A**	**black grey (7021) / telegrey 1 (7045)**
Agar	**ISP 4 - S**	**none**
Agar	**ISP 5 - G**	**good**
Agar	**ISP 5 - R**	**n. d.**
Agar	**ISP 5 - A**	**grey white (9002) / signal white (9003)**
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**	**n. d.**
Agar	**ISP 7 - A**	**signal grey (7004) / telegrey 4 (7047)**
Agar	**ISP 7 - S**	**beige (1001)**

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Agar	suter with tyrosine - G	good
Agar	suter with tyrosine - R	n. d.
Agar	suter with tyrosine - A	signal white (9003)
Agar	suter with tyrosine - S	maize yellow (1006)
Agar	suter without tyrosine - G	good
Agar	suter without tyrosine - R	n. d.
Agar	suter without tyrosine - A	signal white (9003)
Agar	suter without tyrosine - S	sand yellow (1002)
	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	4
Api zym	Esterase (C4)	2
Api zym	Esterase Lipase (C8)	1
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	3
Api zym	Valine arylamidase	2
Api zym	Cystine arylamidase	1
Api zym	Trypsin	5
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	3
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	2
Api zym	beta galactosidase	3
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	2
Api zym	beta glucosidase	1
Api zym	N-acetyl-beta-glucoseamidase	3

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Api zym	**alpha mannosidase**	**1**
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**	**-**

Apicoryne

Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 42010.

Apizym

Abbildung 2: Apizym-Teststreifen mit Keim DSM 42010.

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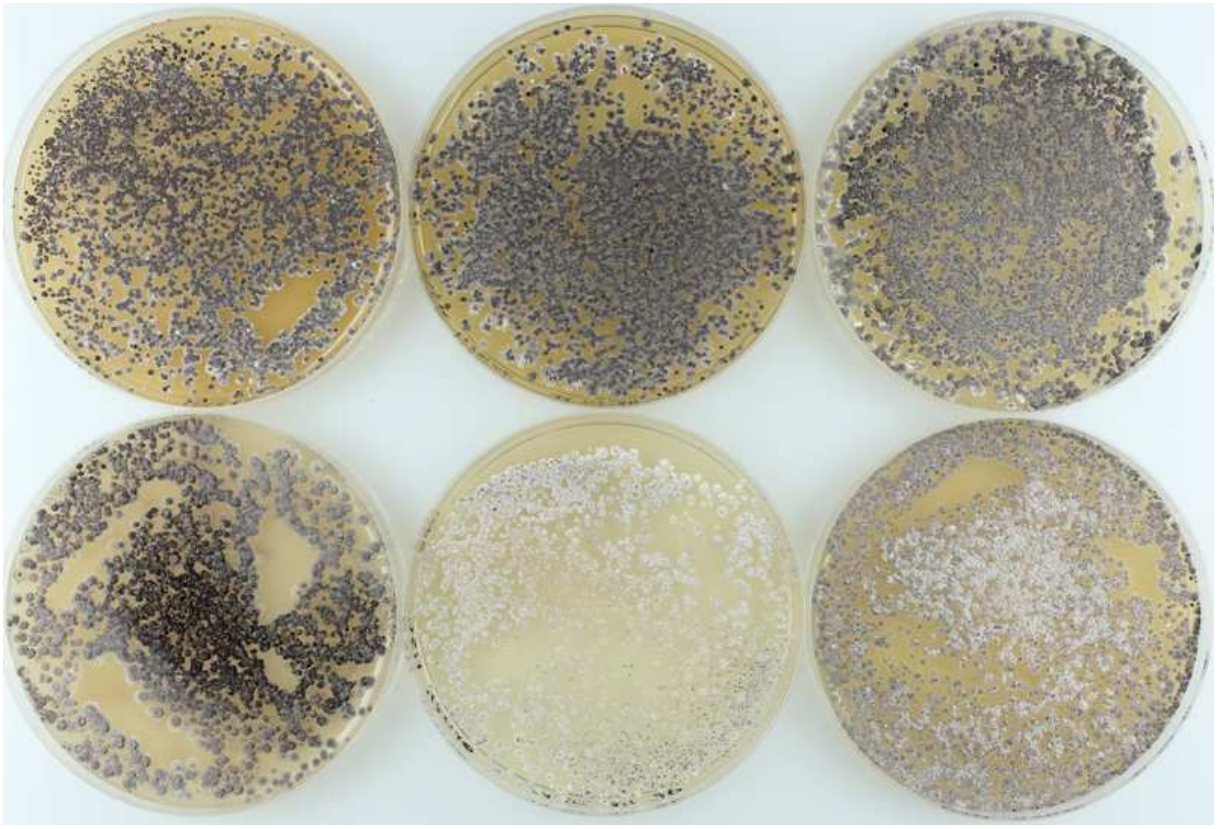
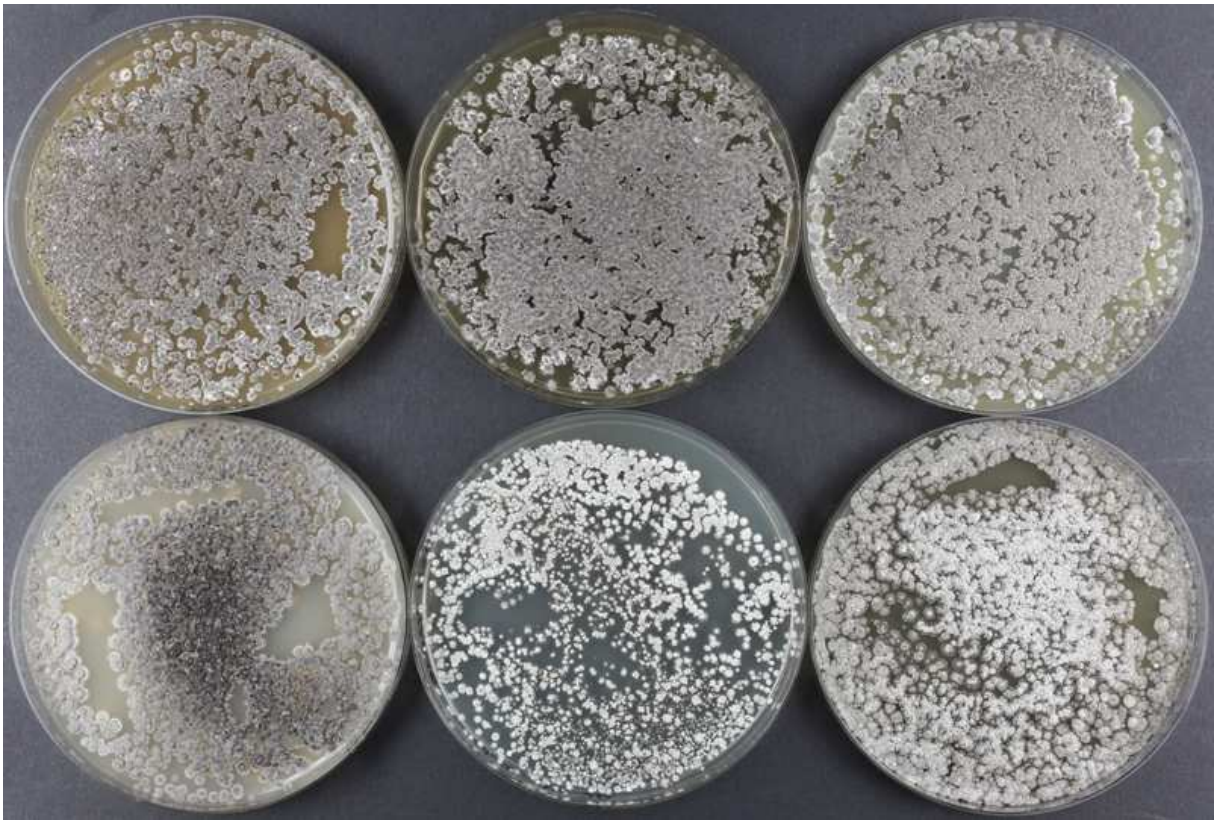
Plates (65, ISP2, ISP3, ISP4, ISP5, ISP7)





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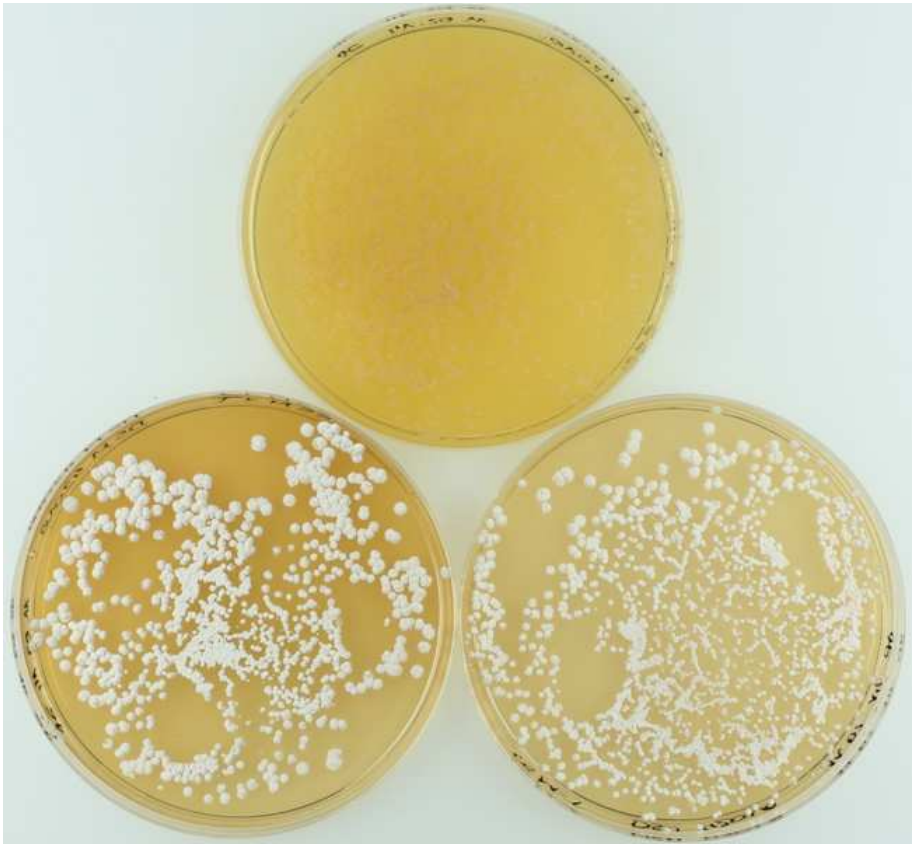
(ISP6, SSM+T, SSM-T)



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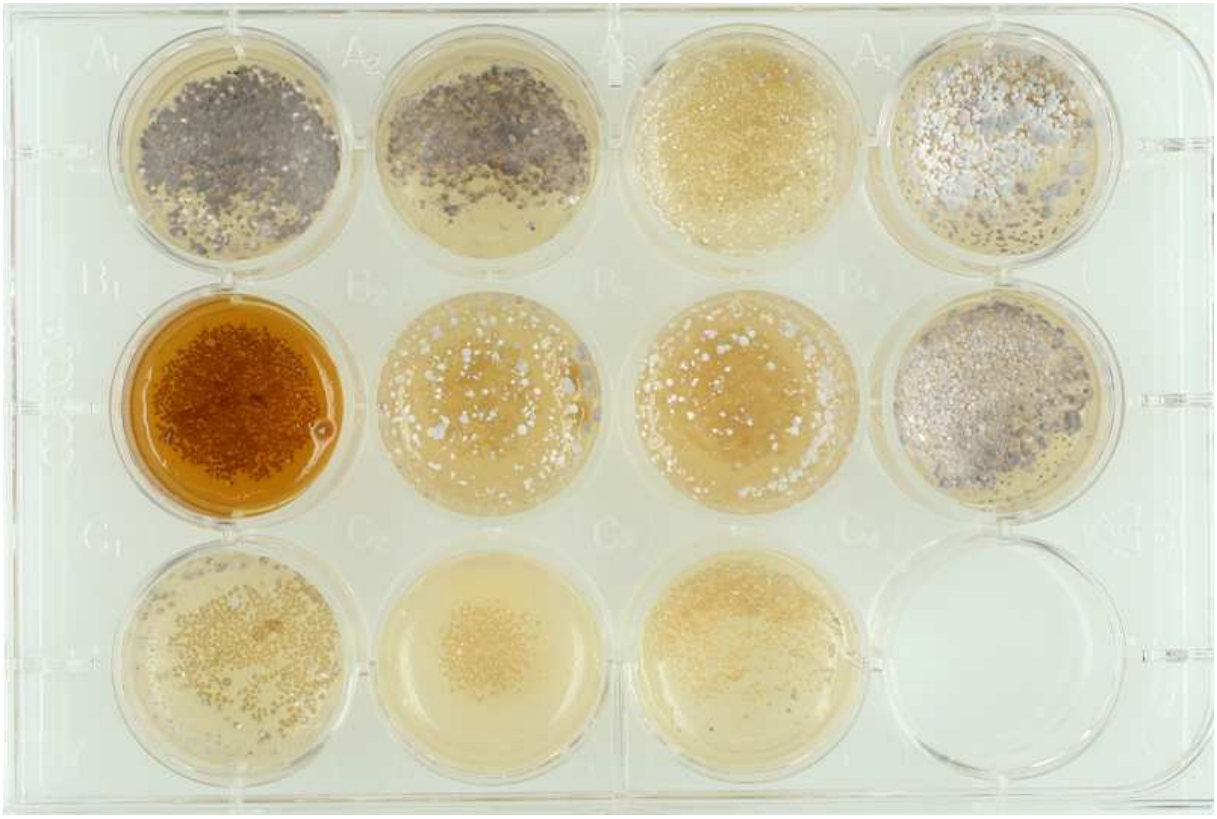
Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose)



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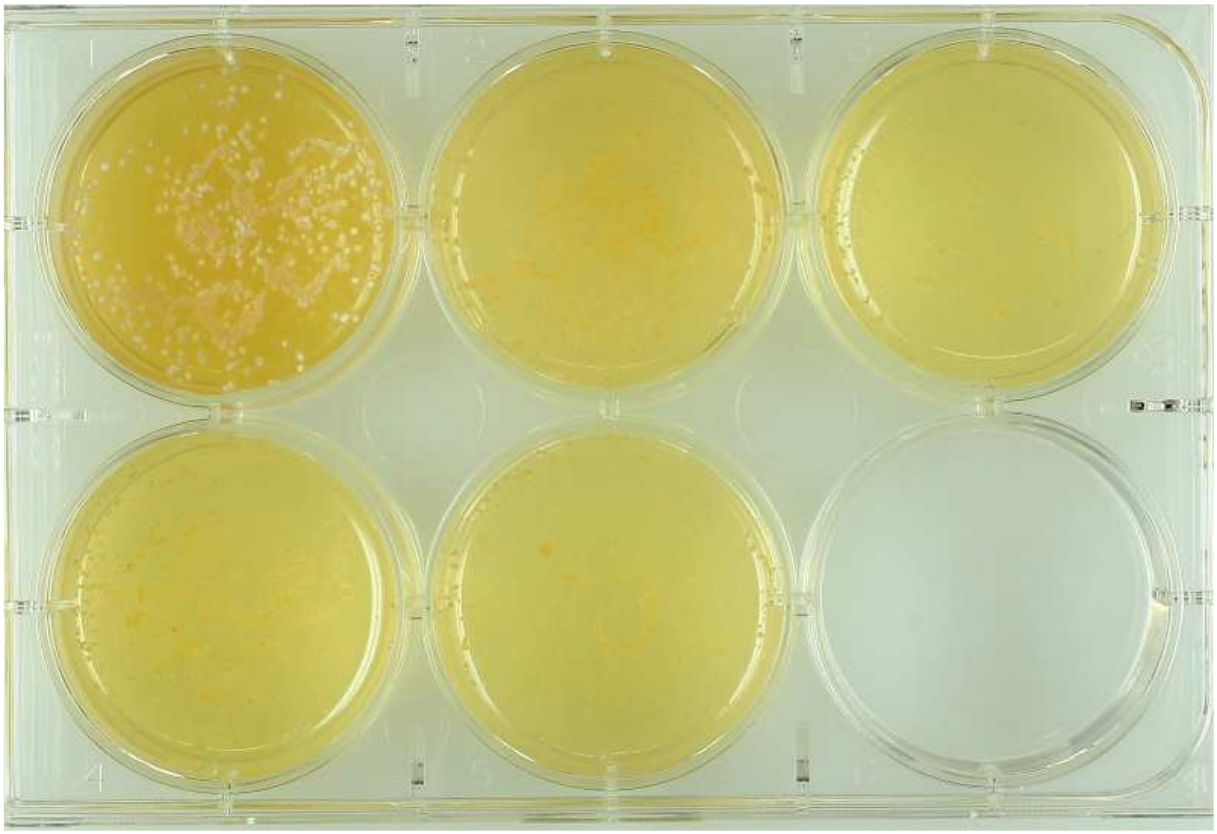
Sodium chloride tolerance test (from top left to bottom right: 0%, 2,5%, 5%, 7,5%, 10%)



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