

Compendium of Actinobacteria from Dr. Joachim M. Wink  
University of Braunschweig

Strain		DSM 45142
Genus		<b><i>Micromonospora</i></b>
Species		<b><i>tulbaghiae</i></b>
Status		
Risk group		L1
Type strain		JCM 18297, NRRL B-24576
Reference		
Author		Kirby, B. M., Meyers, P. R.
Title		<i>Micromonospora tulbaghiae</i> sp. nov., isolated from the leaves of wild garlic, <i>Tulbaghia violacea</i> .
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>60 ( Pt 6 )</b>
Page		1328-1333
Year		2010
Author		Euzeby, J.
Title		Notification that new names and new combinations have appeared in volume 60, part 6, of the IJSEM.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>60 ( Pt 9 )</b>
Page		1987-1988
Year		2010
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Olive brown (8008)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	ochre brown (8001)
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	Orange brown (8023)
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good
Agar	ISP 4 - R	Yellow orange (2000)
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	Yellow orange (2000)
Agar	ISP 5 - A	None
Agar	ISP 5 - S	None
Agar	ISP 6 - G	/
Agar	ISP 6 - R	/
Agar	ISP 6 - A	/
Agar	ISP 6 - S	/
Agar	ISP 7 - G	Good

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Agar	ISP 7 - R	Ochre brown (8001)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	Ochre brown (8001)
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Daffodil yellow (1007)
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	Sand yellow (1002)
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	Saffran yellow (1017)
Agar	suter without tyrosine - A	None
Agar	suter without tyrosine - S	None
	Sporechains/Sporangia	
Physiology		
Melanin		+
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodim 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	0
Api zym	Esterase (C4)	4
Api zym	Esterase Lipase (C8)	4
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	4
Api zym	Cystine arylamidase	4
Api zym	Trypsin	5
Api zym	Chymotrypsin	5
Api zym	Phosphatase acid	0
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	5
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0

Api zym	alpha glucosidase	5
Api zym	beta GLUCOSIDASE	0
Api zym	N-acetyl-beta-glucoseamidase	3
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	0
Api coryne	nitrate reduction	
Api coryne	Pyrazinamidase	
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	-

### Api coryne



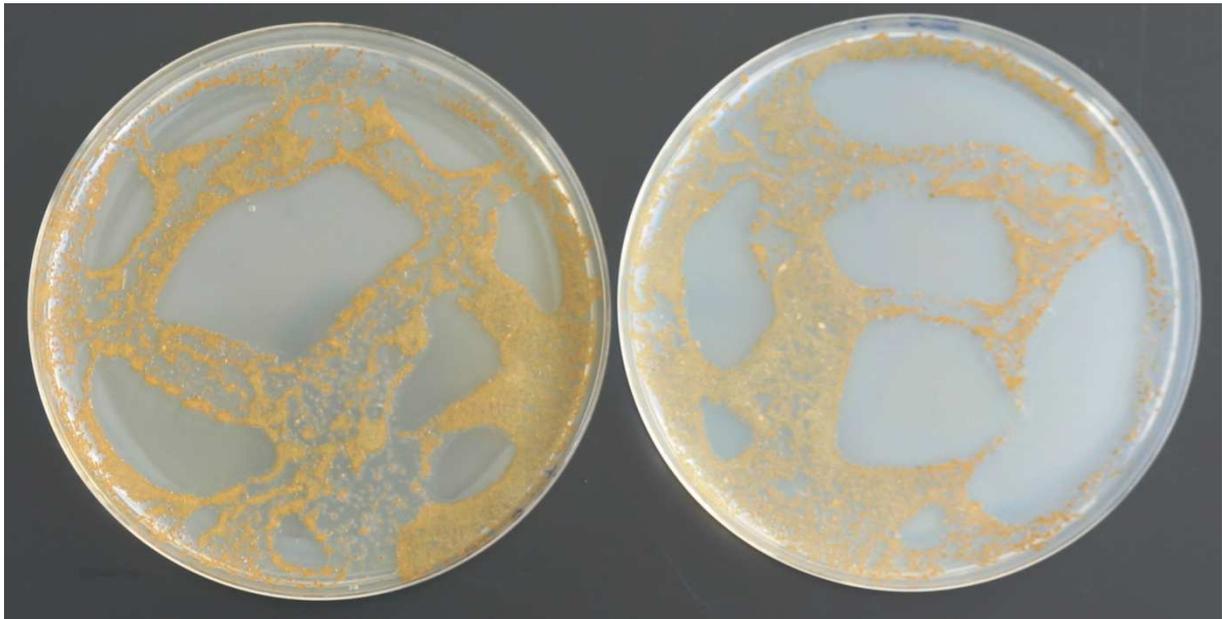
### API zym



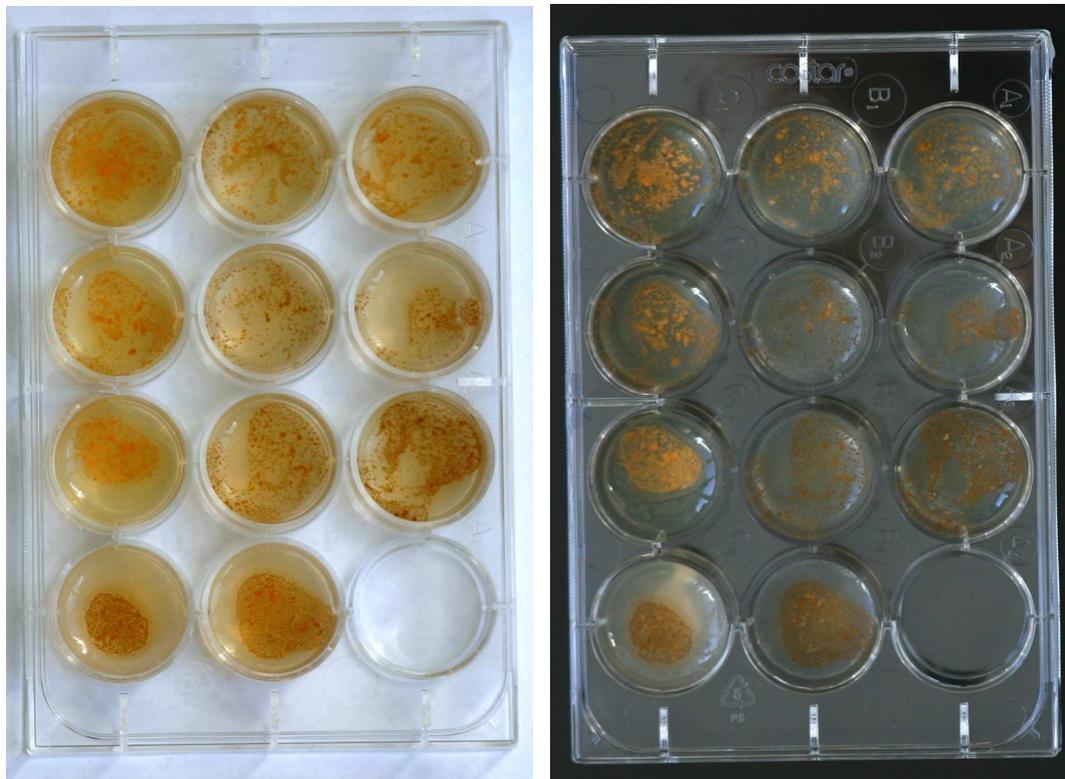
**Plates** (DSM 554, ISP2, ISP3, ISP4, ISP5, ISP7)



(SSM+T, SSM-T)



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



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

