

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

Strain		DSM 45559
Genus		<b><i>Plantactinospora</i></b>
Species		<b><i>siamensis</i></b>
Status		
Risk group		L1
Type strain		DSM 45559, CM2-8, BCC 34762, JCM 15677
Reference		
Author		Thawai, C., Tanasupawat, S., Suwanborirux, K., Kudo, T.
Title		Actinaurispora siamensis gen. nov., sp. nov., a new member of the family Micromonosporaceae.
Journal		Int J Syst Evol Microbiol 60 ( Pt 7 )
Volume		60 (Pt 7)
Page		1660-1666
Year		2010
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 <i>Camptotheca acuminata</i> Decne., reclassification of <i>Actinaurispora siamensis</i> as <i>Plantactinospora siamensis</i> comb. nov. and emended descriptions of the genus <i>Plantactinospora</i> and <i>Plantactinospora mayteni</i> .
Journal		Int J Syst Evol Microbiol
Volume		62 ( Pt 10 )
Page		2435-2442
Year		2012
Author		/
Title		Notification that new names and new combinations have appeared in volume 62, part 10, of the IJSEM.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>63</b> ( Pt 1 )
Page		6-7
Year		2013
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Yellow orange (2000)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	Sun yellow (1037)
Agar	ISP 3 - G	Good - decreased
Agar	ISP 3 - R	Golden yellow (1004)

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Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Good - decreased
Agar	ISP 4 - R	Saffron yellow – none
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good – decreased
Agar	ISP 5 - R	saffron yellow (1017)
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
Agar	ISP 7 - R	Bright red orange (2008)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	Brown beige (1011)
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Brown beige (1011)
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	Brown beige (1011)
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	beige
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		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	+

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use of carbohydrates	cellulose	+
Api zym	Phosphatase alcaline	2
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	0
Api zym	Cystine arylamidase	0
Api zym	Trypsin	4
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	5
Api zym	beta galactosidase	4
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	4
Api zym	beta GLUCOSIDASE	5
Api zym	N-acetyl-beta-glucoseamidase	4
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	-

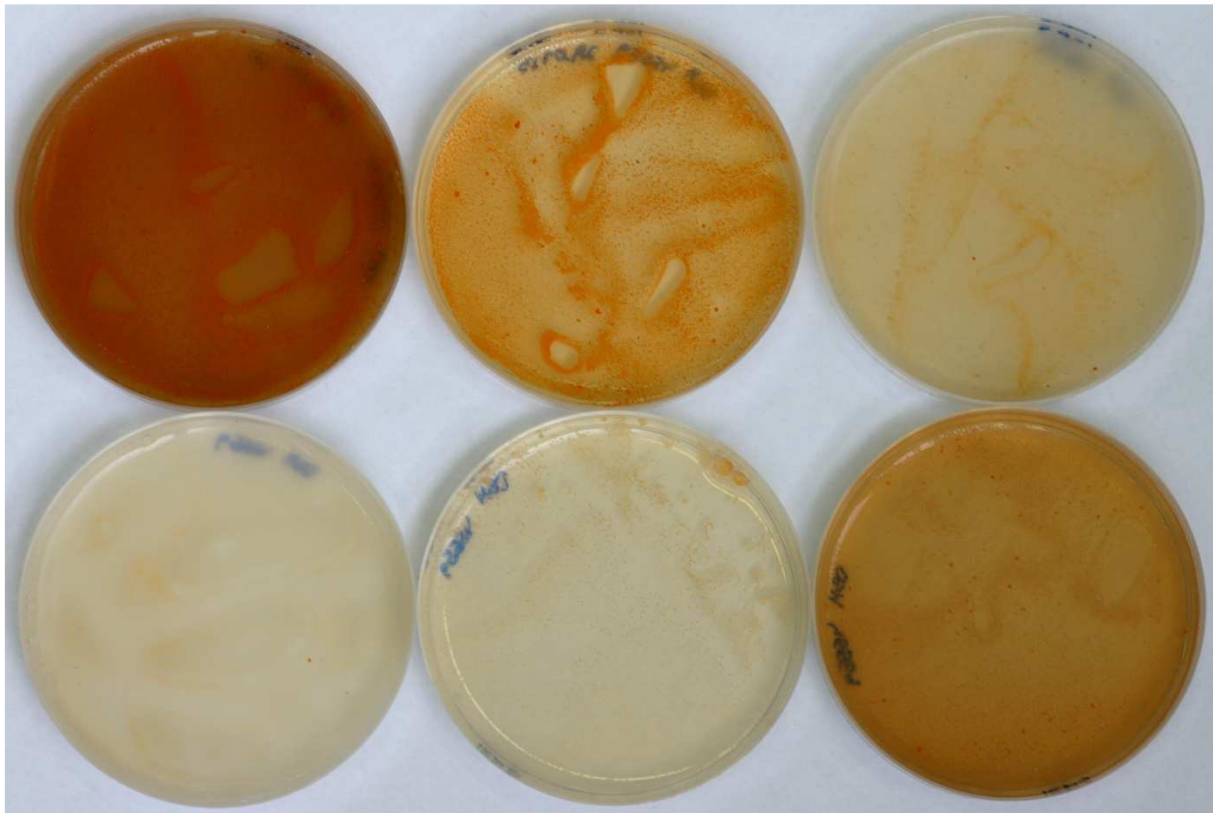
### Apicoryne



### Apizym



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





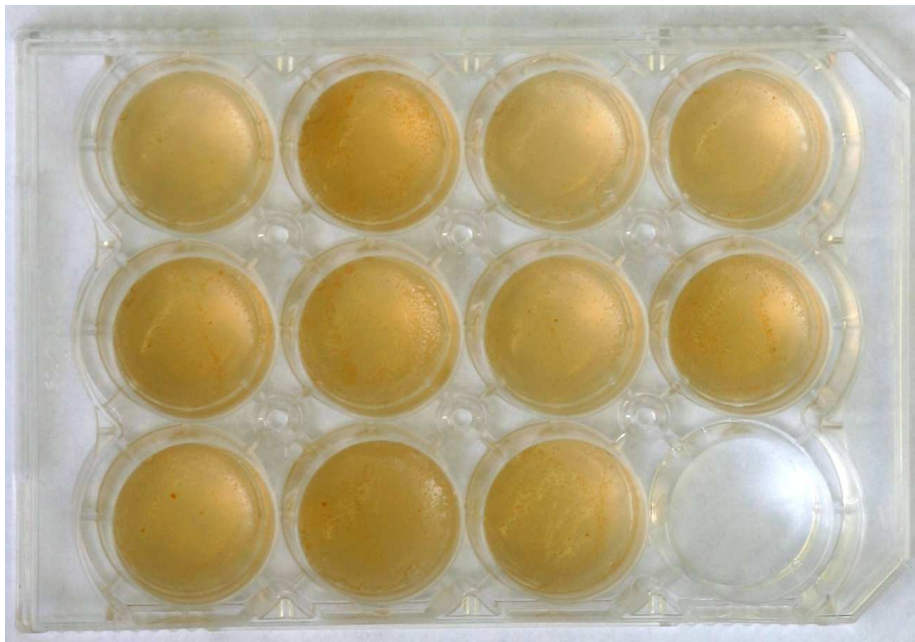
(SSM+T, SSM-T)

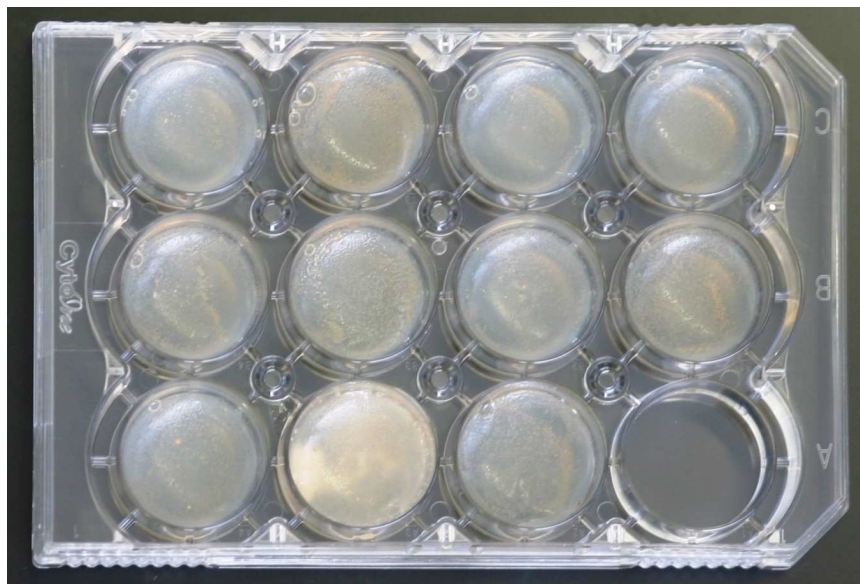






**Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose, water)**





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

