

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

Strain		DSM44794
Genus		<b><i>Virgisporangium</i></b>
Species		<b><i>aurantiacum</i></b>
Status		valid
Risk group		1
Type strain		Yu 438-5; NBRC 16421, IFO 16421, CIP 107212, JCM 11002, KCTC 13916, CCUG 46559
Genbank accession numbers		16S rRNA gene: AB006169
Reference		
Author		Tamura, T., Hayakawa, M., Hatano, K.
Title		A new genus of the order Actinomycetales, <i>Virgisporangium</i> gen. nov., with descriptions of <i>Virgisporangium ochraceum</i> sp. nov. and <i>Virgisporangium aurantiacum</i> sp. nov.
Journal		<i>Int.J.Syst.Evol.Microbiol.</i>
Volume		51
Page		1809-1816
Year		2001
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	bright red orange (2008)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	good/sparse
Agar	ISP 3 - R	bright red orange (2008)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	sparse
Agar	ISP 4 - R	bright red orange (2008)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	good/sparse
Agar	ISP 5 - R	bright red orange (2008)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	sparse/none
Agar	ISP 6 - R	deep orange (2011)
Agar	ISP 6 - A	none
Agar	ISP 6 - S	none
Agar	ISP 7 - G	sparse

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Agar	ISP 7 - R	clay brown (8003)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	clay brown (8003)
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	yellow orange (2000), clay brown (8003)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	clay brown (8003)
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	yellow orange (2000)
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		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	+
use of carbohydrates	cellulose	(+)
Api zym	Phosphatase alkaline	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	5
Api zym	Chymotrypsin	4
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	4
Api zym	beta galactosidase	5
Api zym	beta glucuronidase	0

Api zym	alpha glucosidase	5
Api zym	beta glucosidase	4
Api zym	N-acetyl-beta-glucoseamidase	4
Api zym	alpha mannosidase	3
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	-

### Apicoryne



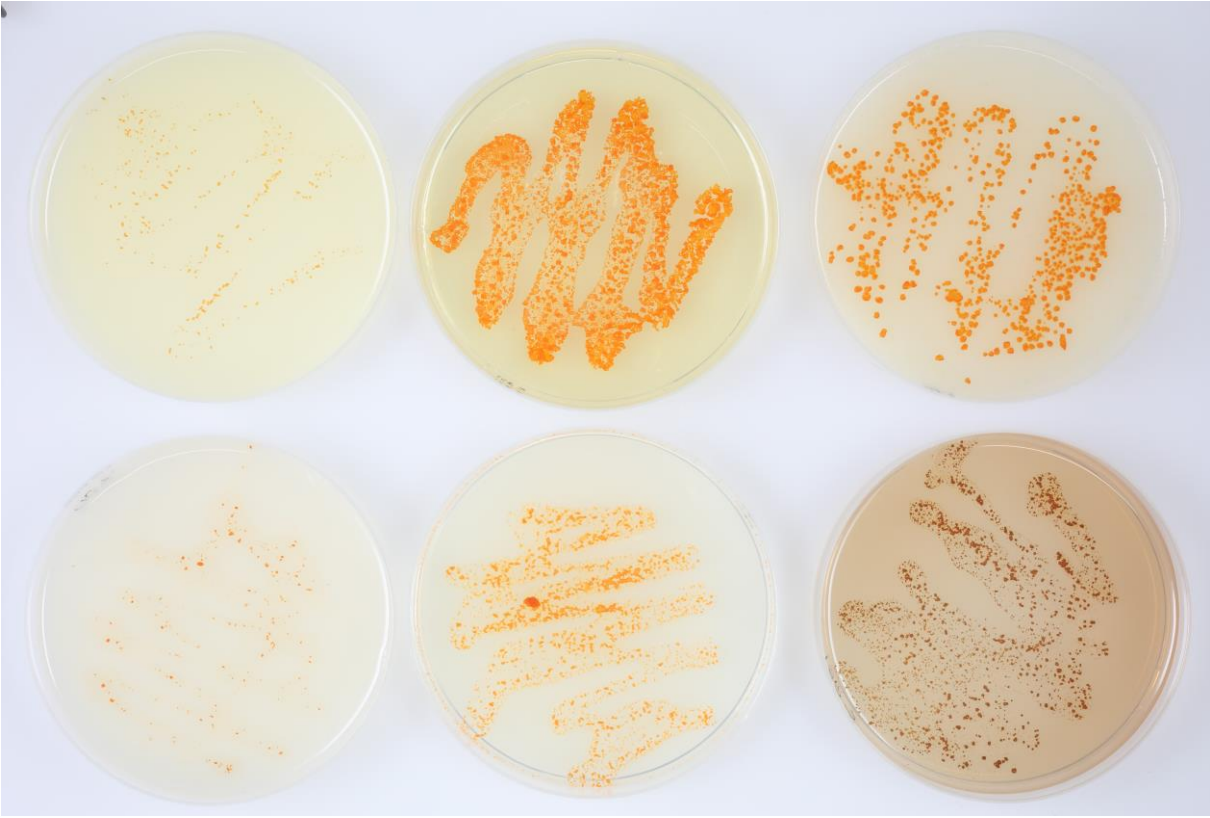
Abbildung 1: Apicoryne-Teststreifen mit Keim DSM.

### Apizym



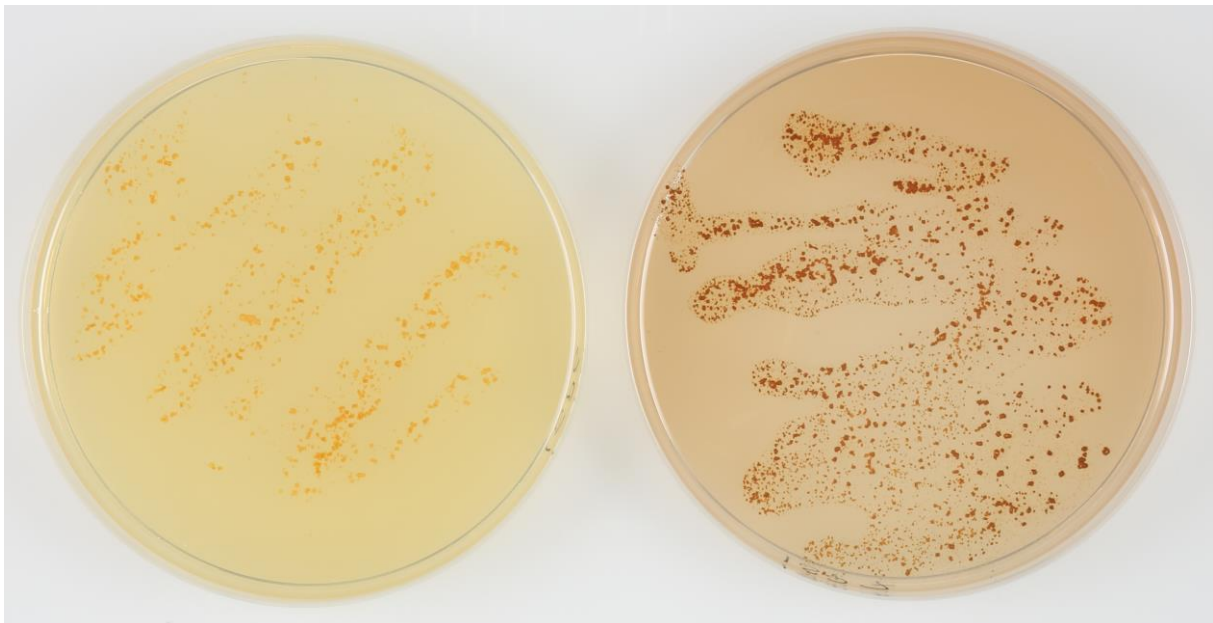
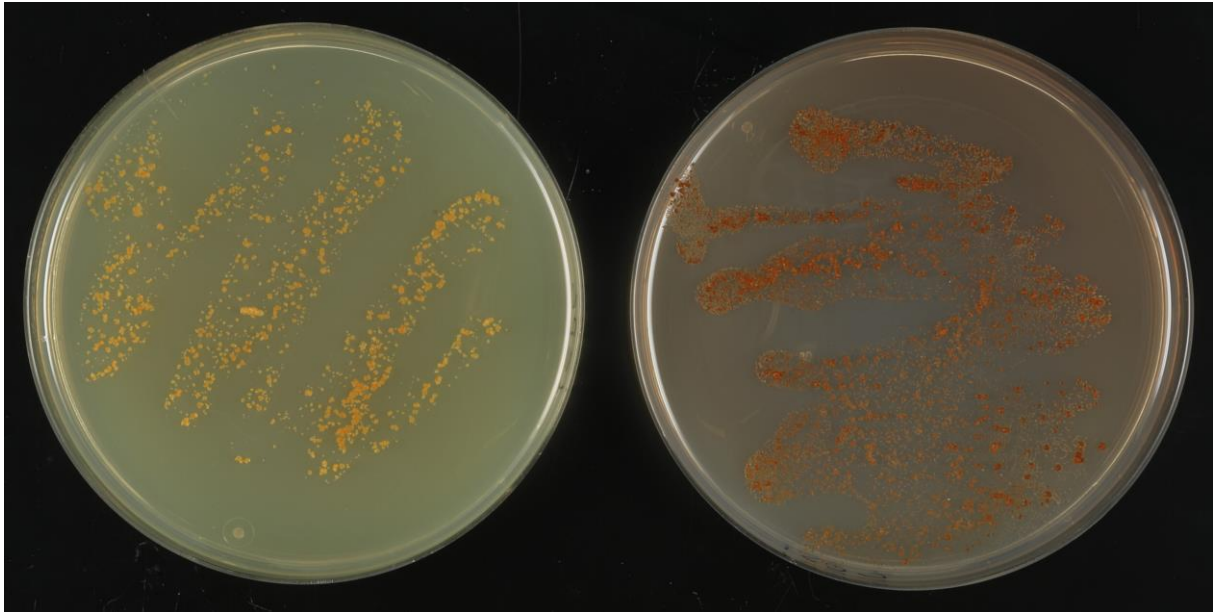
Abbildung 2: Apizym-Teststreifen mit Keim DSM.

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

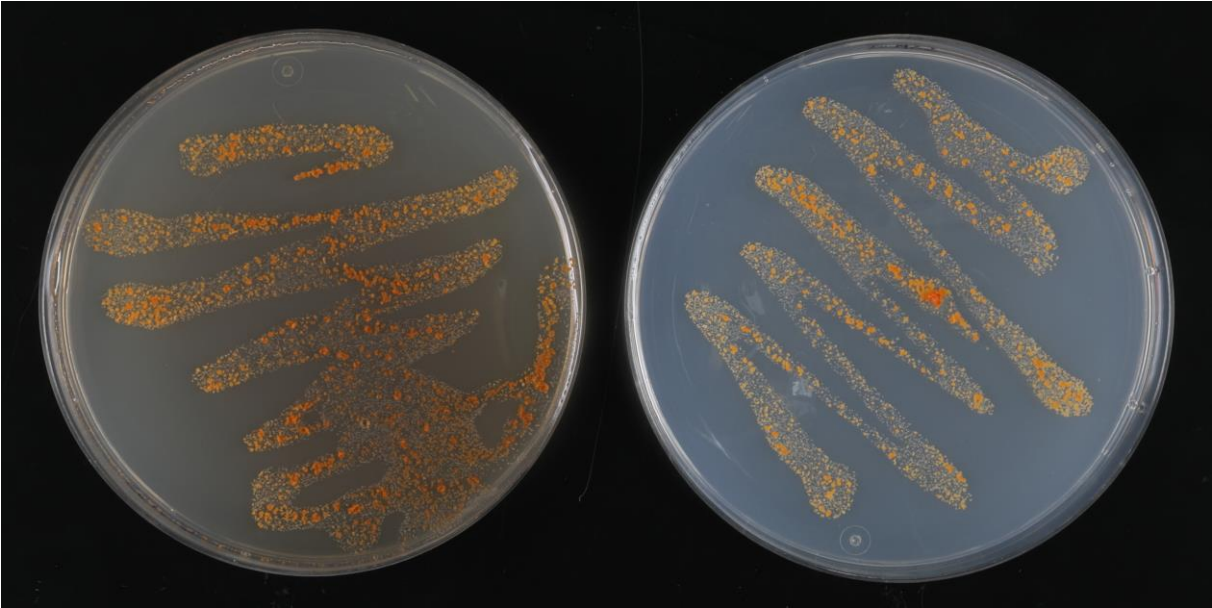




(ISP6, ISP7)

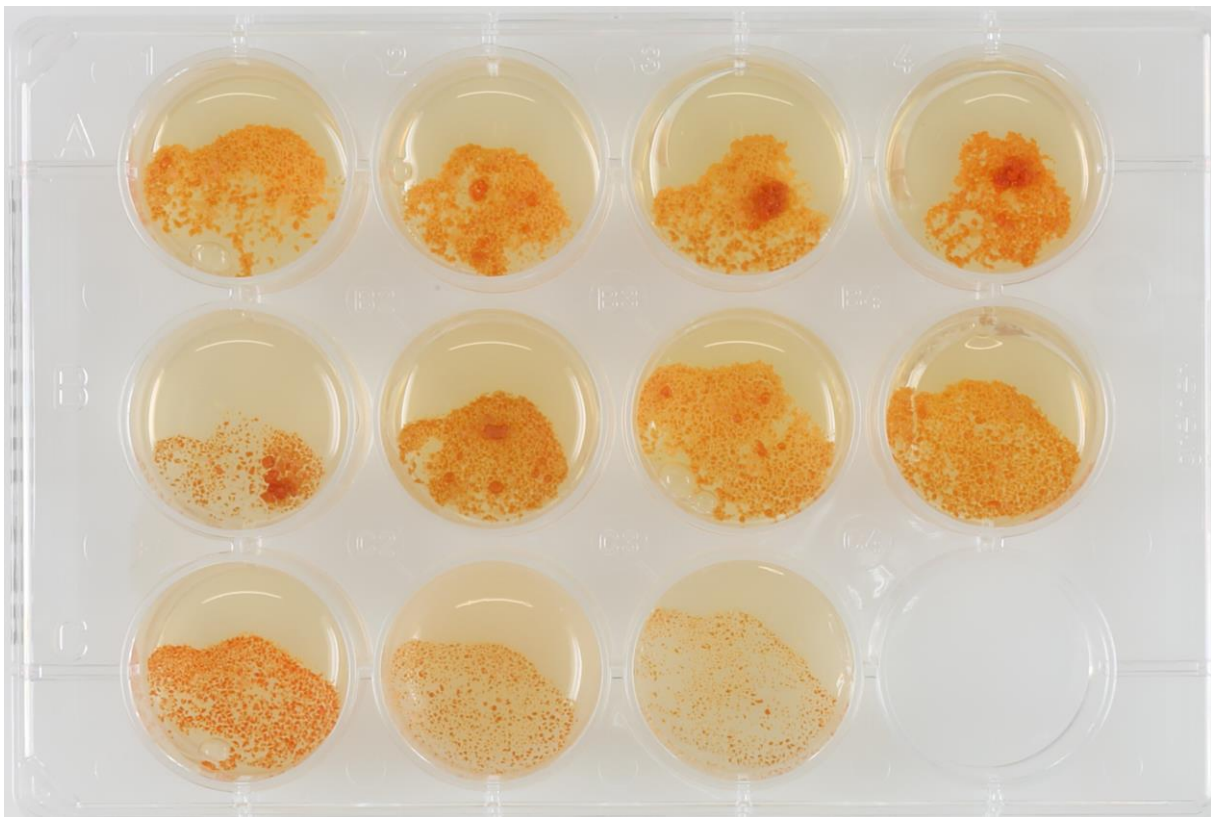
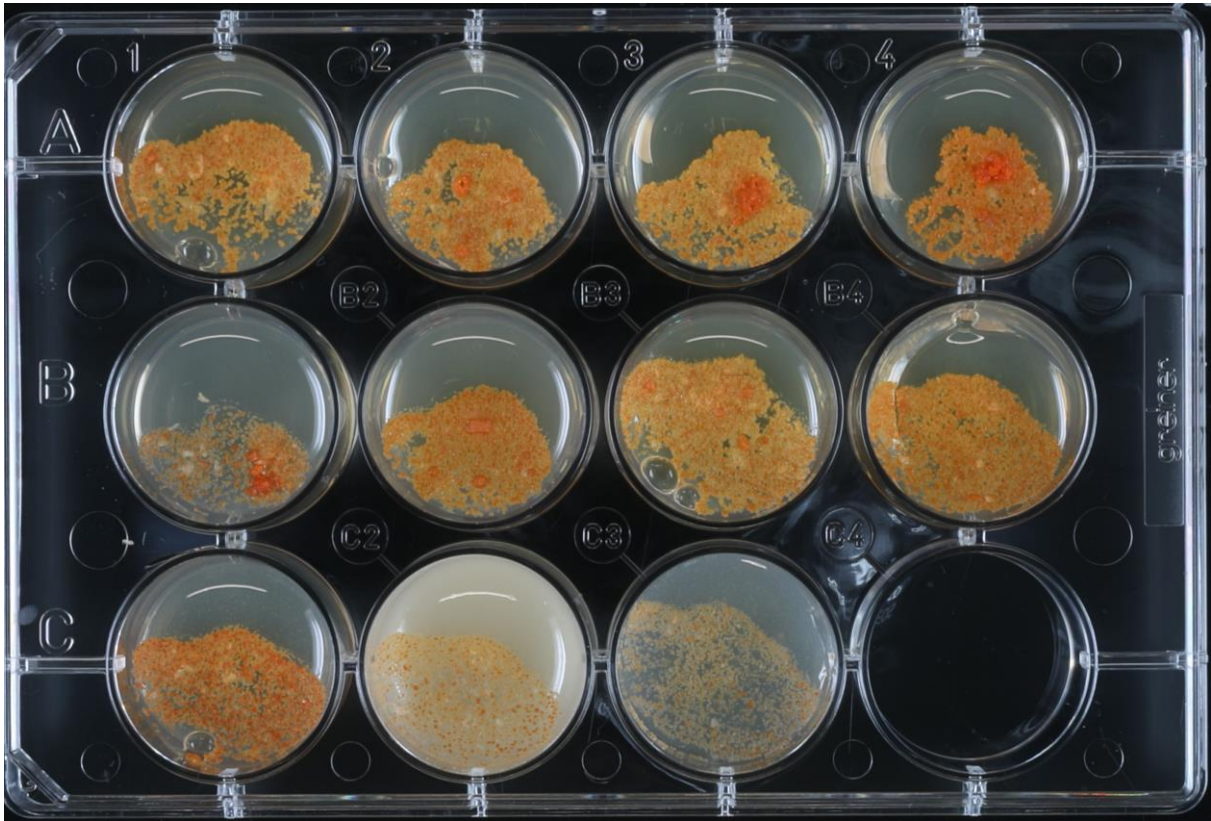


(SSM+T, SSM-T)





**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%)**

