

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

Strain		DSM 22951
Genus		<b><i>Branchiibius</i></b>
Species		<b><i>hedensis</i></b>
Status		
Risk group		L1
Type strain		NBRC 106121
Reference		
Author		Sugimoto, S., Kato, T., Ito, M., Sakata, N., Tsuchida, T., Matsumoto, A., Takahashi, Y.
Title		<i>Branchiibius hedensis</i> gen. nov., sp. nov., an actinobacterium isolated from a Japanese codling ( <i>Physiculus japonicus</i> ).
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 ( Pt 5 )
Page		1195-1200
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	oyster white (1013)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	decreased
Agar	ISP 3 - R	oyster white (1013)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	decreased
Agar	ISP 4 - R	oyster white (1013)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	sparse
Agar	ISP 5 - R	oyster white (1013)
Agar	ISP 5 - A	none
Agar	ISP 5 - S	none
Agar	ISP 6 - G	nd
Agar	ISP 6 - R	
Agar	ISP 6 - A	
Agar	ISP 6 - S	
Agar	ISP 7 - G	good
Agar	ISP 7 - R	light ivory (1015)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse

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Agar	suter with tyrosine - R	oyster white (1013)
Agar	suter with tyrosine - A	none
Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	oyster white (1013)
Agar	suter without tyrosine - A	none
Agar	suter without tyrosine - S	none
	Sporechains/Sporangia	none
Physiology		
Melanin		negative
pH	range	
pH	optimum	
temperature	range	
temperature	optimum	30°C
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 alkaline	5
Api zym	Esterase (C4)	4
Api zym	Esterase Lipase (C8)	5
Api zym	Lipase (C14)	3
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	4
Api zym	Cystine arylamidase	3
Api zym	Trypsin	4
Api zym	Chymotrypsin	3
Api zym	Phosphatase acid	5
Api zym	Naphtol-AS-BI-phosphohydrolase	2
Api zym	alpha galactosidase	1
Api zym	beta galactosidase	4
Api zym	beta glucuronidase	3
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	5
Api zym	N-acetyl-beta-glucoseamidase	3
Api zym	alpha mannosidase	2

Api zym	alpha fucosidase	2
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

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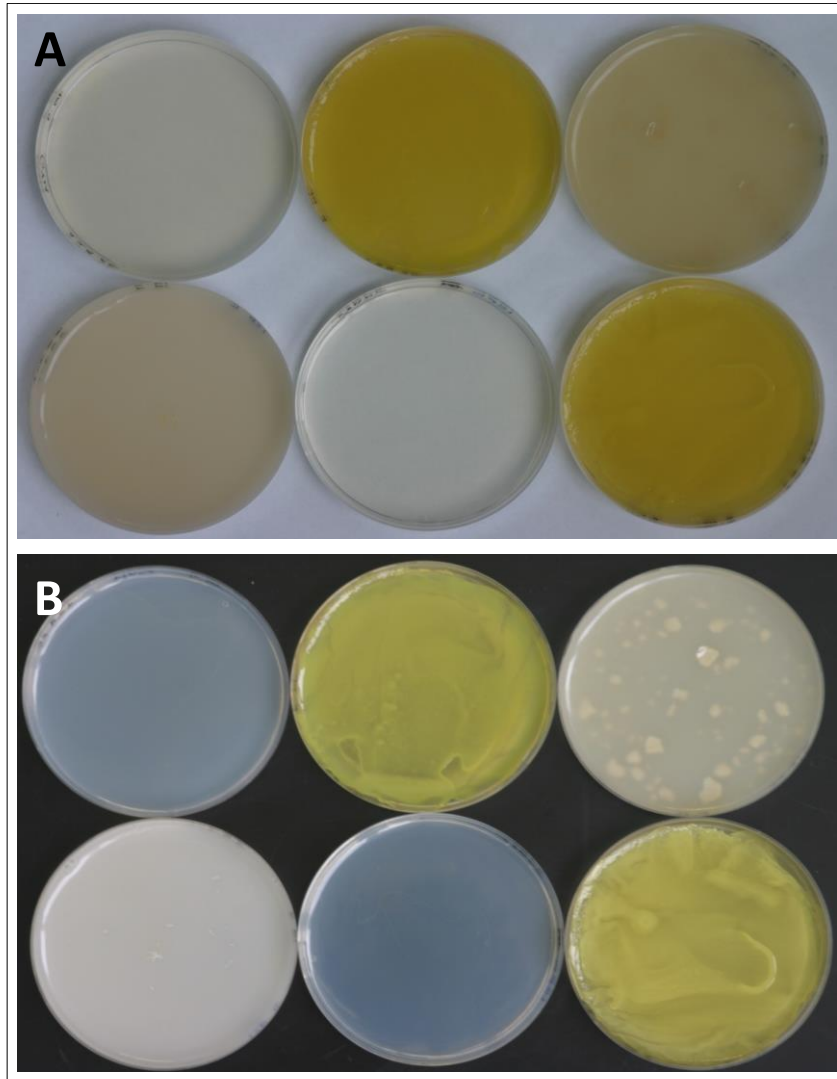


### Apizym

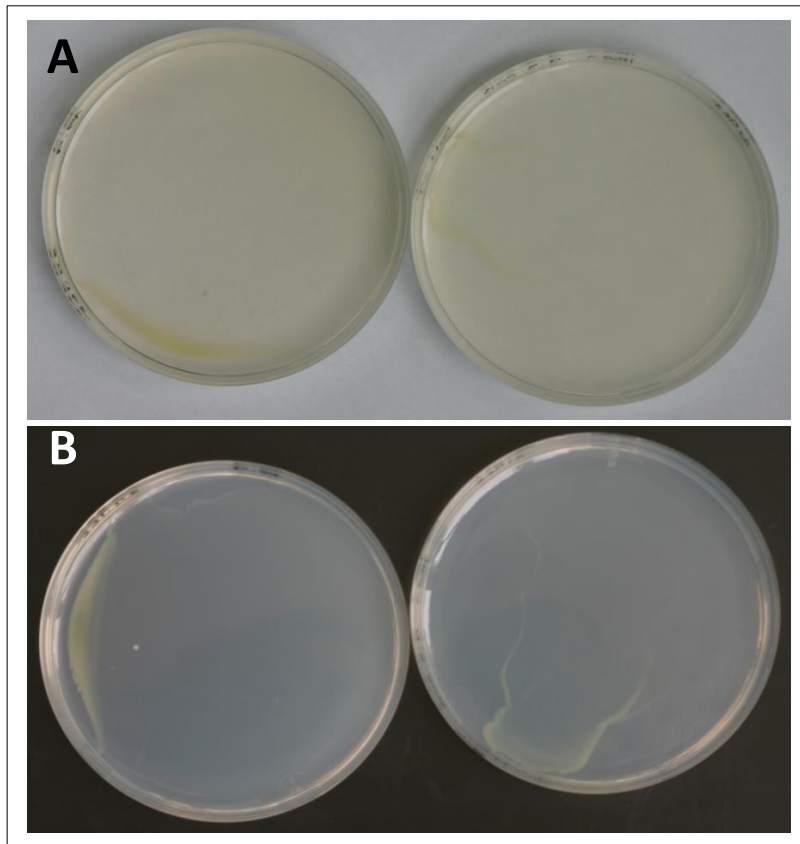


**Plates**

GYM, ISP2, ISP3, ISP4, ISP5, ISP7



SSM+T, SSM-T



**Carbon utilization test (A and C - from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose) and Sodium chloride tolerance test (B and D - from top left to bottom right: 0%, 2,5%, 5%, 7,5%, 10%)**

