

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

Strain		DSM 22965
Genus		<b><i>Agrococcus</i></b>
Species		<b><i>carbonis</i></b>
Status		
Risk group		L1
Type strain		MTCC 10213
Reference		
Author		Dhanjal, S., Kaur, I., Korpole, S., Schumann, P., Cameotra, S. S., Pukall, R., Klenk, H. P., Mayilraj, S.
Title		<i>Agrococcus carbonis</i> sp. nov., isolated from soil of a coal mine.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		61 ( Pt 6 )
Page		1253-1256
Year		2011
Morphology		
Agar	ISP 2 - growth/G	good
Agar	ISP 2 - colony color/R	lemon yellow (1012)
Agar	ISP 2 - aerial mycelium/A	none
Agar	ISP 2 - soluble pigment/S	none
Agar	ISP 3 - G	decreased
Agar	ISP 3 - R	lemon yellow (1012)
Agar	ISP 3 - A	none
Agar	ISP 3 - S	none
Agar	ISP 4 - G	sparse
Agar	ISP 4 - R	oyster white (1013)
Agar	ISP 4 - A	none
Agar	ISP 4 - S	none
Agar	ISP 5 - G	none
Agar	ISP 5 - R	
Agar	ISP 5 - A	
Agar	ISP 5 - S	
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	lemon yellow (1012)
Agar	ISP 7 - A	none
Agar	ISP 7 - S	none
Agar	suter with tyrosine - G	sparse
Agar	suter with tyrosine - R	lemon yellow (1012)
Agar	suter with tyrosine - A	none

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Agar	suter with tyrosine - S	none
Agar	suter without tyrosine - G	sparse
Agar	suter without tyrosine - R	lemon yellow (1012)
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	0
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	4
Api zym	Lipase (C14)	1
Api zym	Leucin arylamidase	2
Api zym	Valine arylamidase	1
Api zym	Cystine arylamidase	1
Api zym	Trypsin	1
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	0
Api zym	Naphtol-AS-BI-phosphohydrolase	1
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	5
Api zym	beta glucosidase	0
Api zym	N-acetyl-beta-glucoseamidase	1
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	-

### Apicoryne

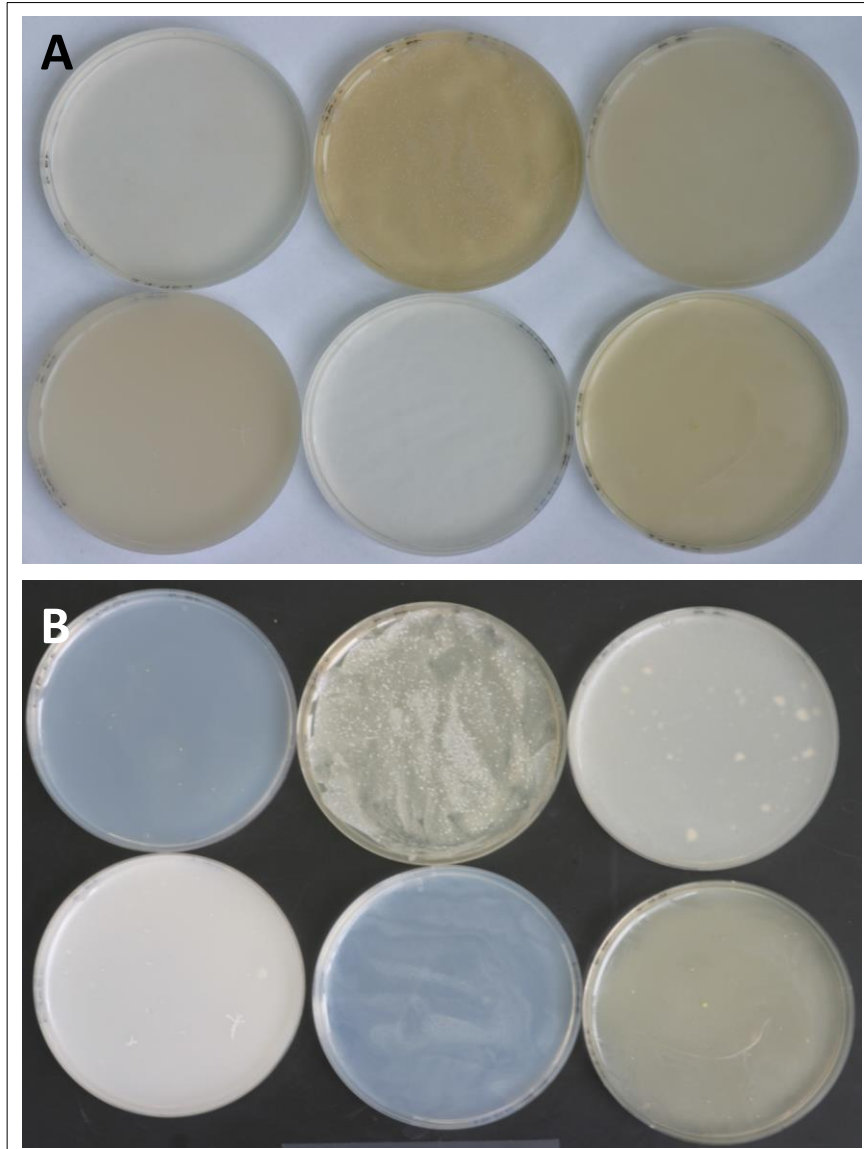


### Apizym

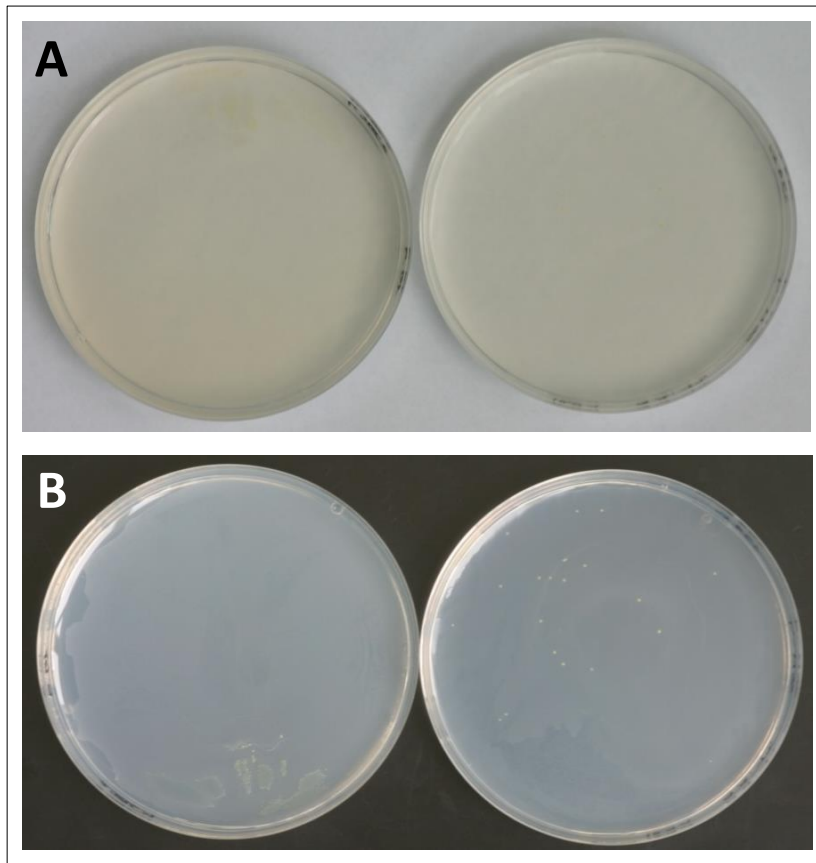


**Plates**

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%)**

