

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

Strain		DSM 22788
Genus		<b><i>Leucobacter</i></b>
Species		<b><i>chromiiresistens</i></b>
Status		
Risk group		L1
Type strain		JG 31, CCOS 200, JCM 17813
Reference		
Author		Sturm, G., Jacobs, J., Spröer, C., Schumann, P., Gescher, J.
Title		<i>Leucobacter chromiiresistens</i> sp. nov., a chromate-resistant strain.
Journal		<i>Int J Syst Evol Microbiol</i>
Volume		<b>61</b> ( Pt 4 )
Page		956-960
Year		2011
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Honey yellow (1005)
Agar	ISP 2 - aerial mycelium/A	None
Agar	ISP 2 - soluble pigment/S	Sand yellow (1002)
Agar	ISP 3 - G	Good
Agar	ISP 3 - R	Rape yellow (1002)
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Decreased
Agar	ISP 4 - R	Traffic yellow (1021)
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Good
Agar	ISP 5 - R	Zinc yellow (1018)
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	Honey yellow (1005)
Agar	ISP 7 - A	None
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Good
Agar	suter with tyrosine - R	Lemon yellow (1012)
Agar	suter with tyrosine - A	None
Agar	suter with tyrosine - S	None
Agar	suter without tyrosine - G	Good – decreased
Agar	suter without tyrosine - R	Zinc yellow (1018)

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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 alkaline	1
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	2
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	4
Api zym	Valine arylamidase	5
Api zym	Cystine arylamidase	1
Api zym	Trypsin	0
Api zym	Chymotrypsin	0
Api zym	Phosphatase acid	1
Api zym	Naphtol-AS-BI-phosphohydrolase	0
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
Api zym	beta GLUCOSIDASE	0
Api zym	N-acetyl-beta-glucoseamidase	0
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	-

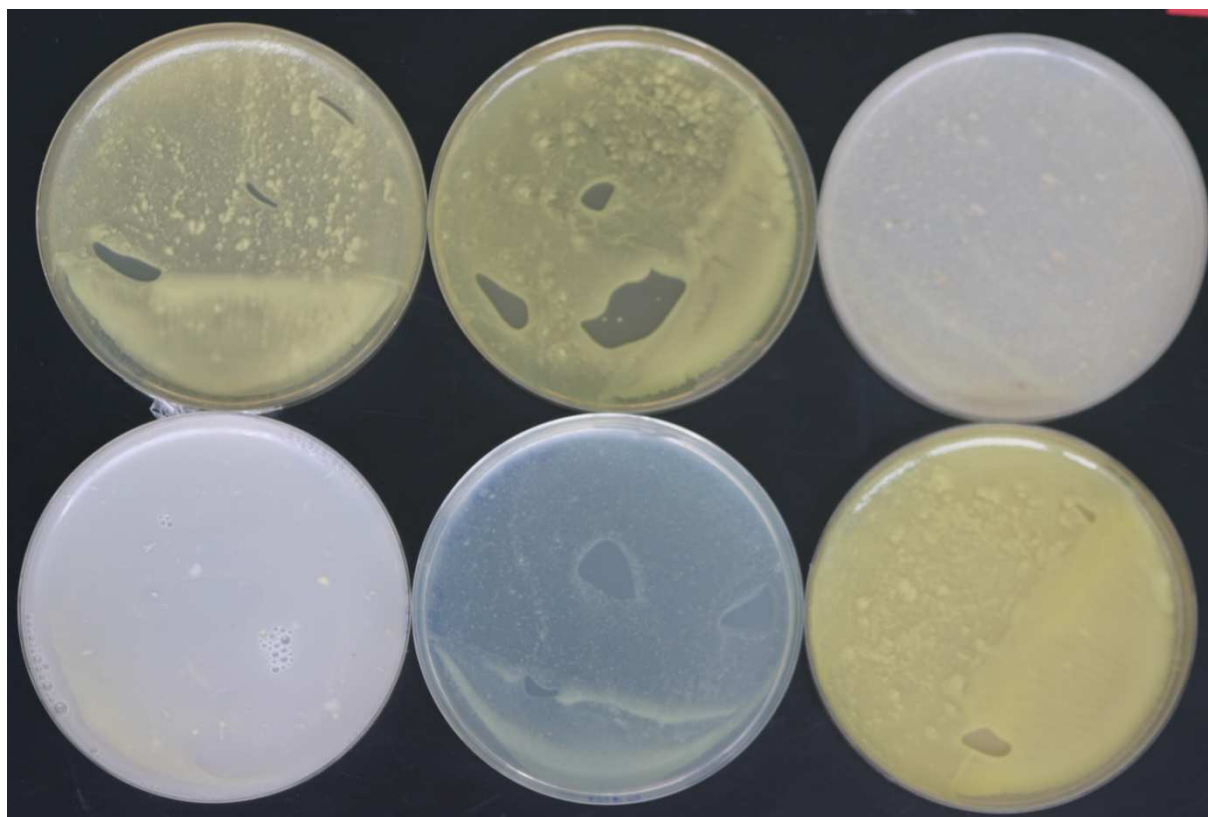
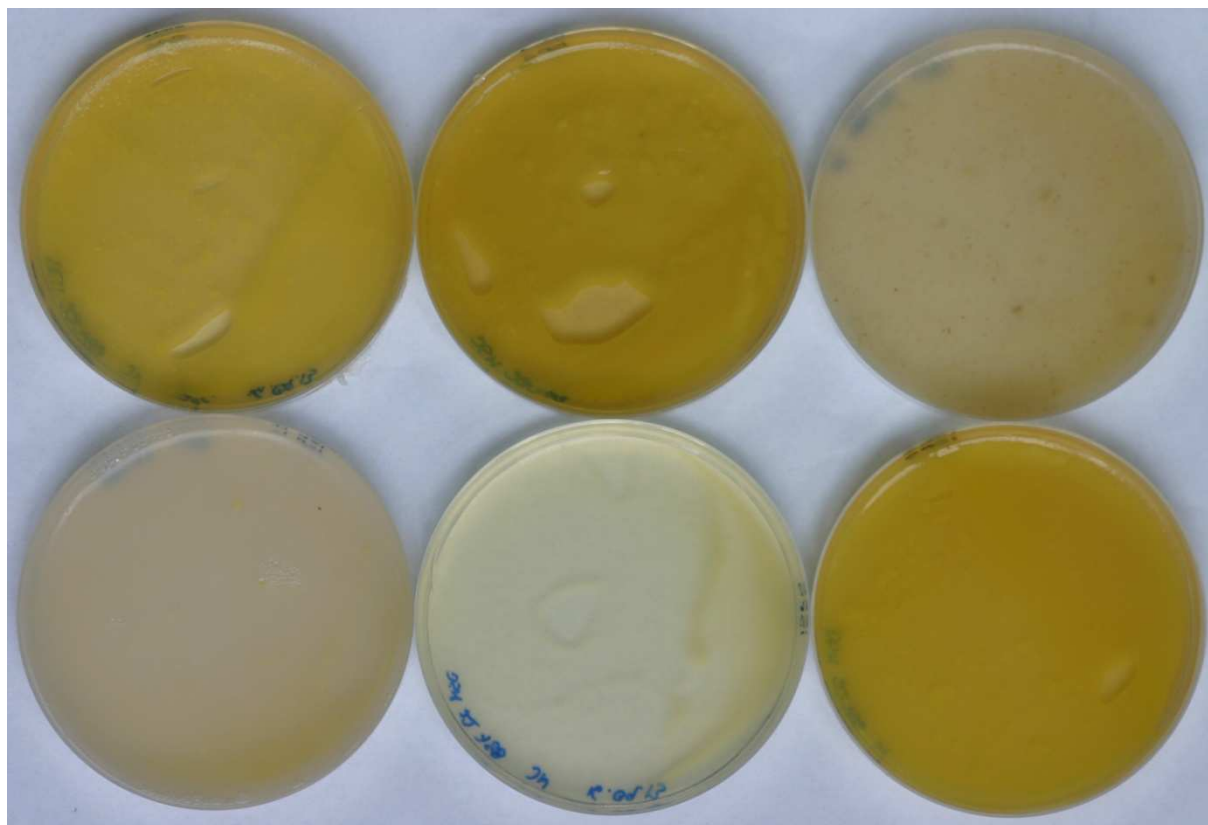
### Apicoryne



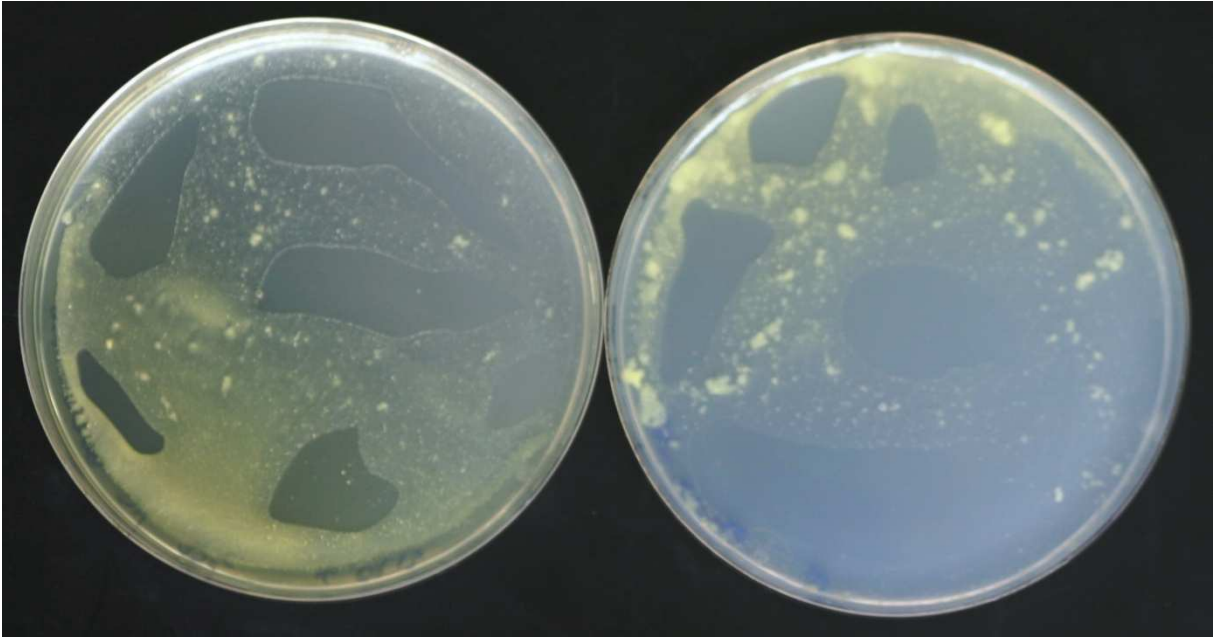
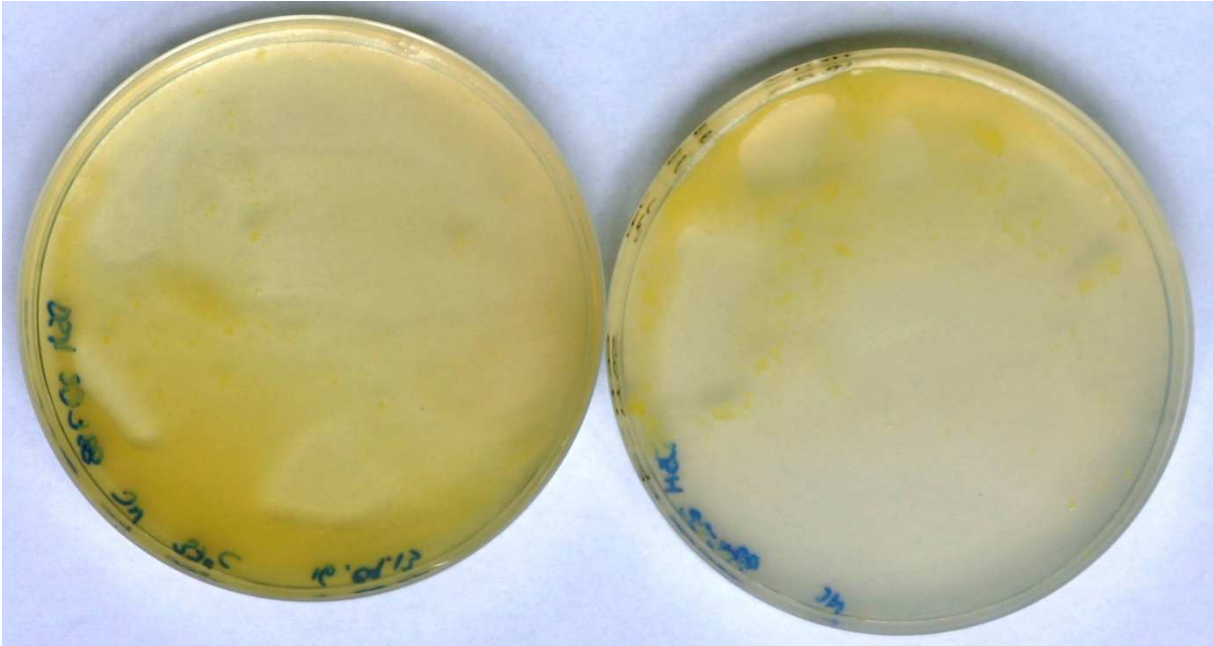
### Apizym



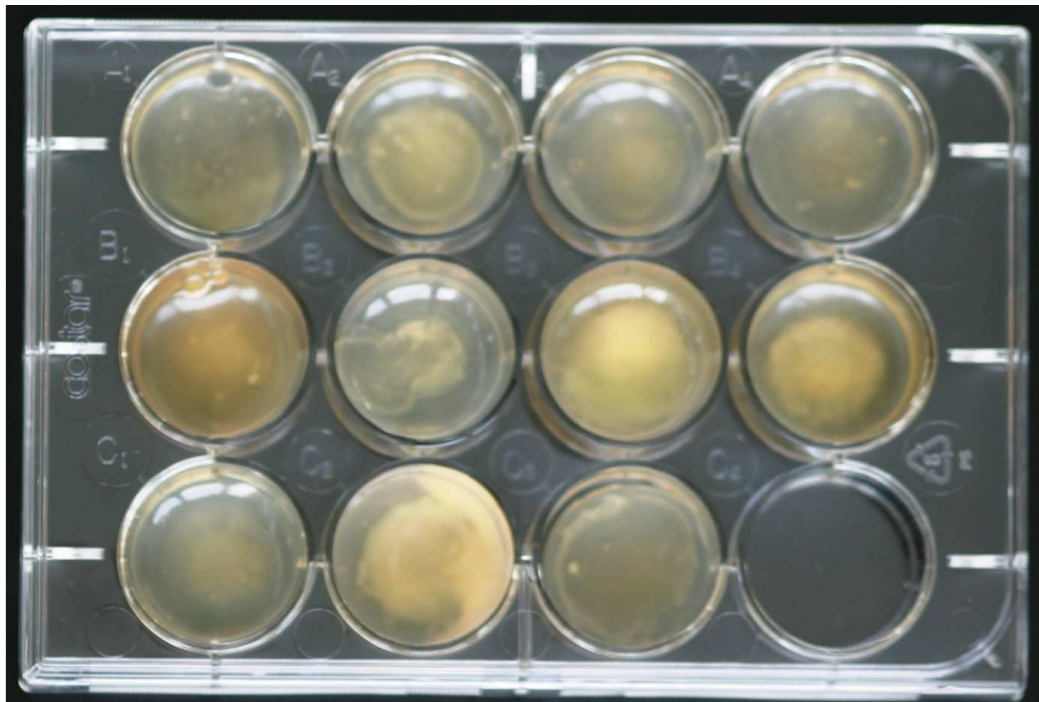
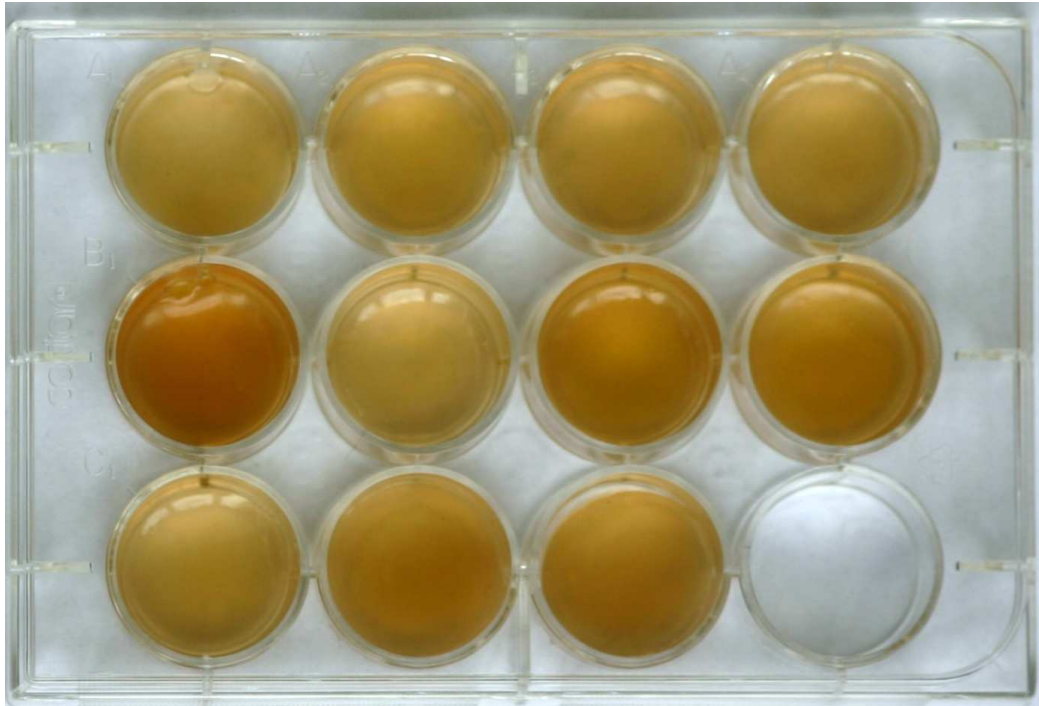
**Plates** (DSM 92, ISP2, ISP3, ISP4, ISP5, ISP7)



(SSM+T, SSM-T)



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



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

