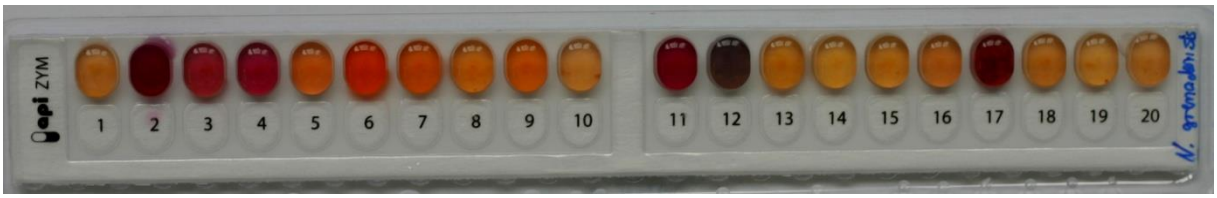
Strain		DSM 45869
Genus		***Nocardia***
Species		***grenadensis***
Status		
Risk group		L1 (provisional classification by DSMZ)
Type strain		GW5_5797, CCUG 60970, CIP 110294
Reference		Int. J. Syst. Evol. Microbiol. 56:2206
Author		Kämpfer, P., Lodders, N., Grün-Wollny, I., Martin, K., Busse, H. J.
Title		*Nocardia grenadensis sp. nov., isolated from sand of the Caribbean Sea*
Journal		*Int J Syst Evol Microbiol*
Volume		**62** (Pt 3)
Page		693-697
Year		2012
Morphology		
Agar	ISP 2 - growth/G	Good
Agar	ISP 2 - colony color/R	Bright red orange (2008)
Agar	ISP 2 - aerial mycelium/A	Signal white (9003)
Agar	ISP 2 - soluble pigment/S	Pastel yellow (1034)
Agar	ISP 3 - G	Decreased
Agar	ISP 3 - R	Pastel yellow (1034)
Agar	ISP 3 - A	None
Agar	ISP 3 - S	None
Agar	ISP 4 - G	Decreased
Agar	ISP 4 - R	Deep orange
Agar	ISP 4 - A	None
Agar	ISP 4 - S	None
Agar	ISP 5 - G	Decreased
Agar	ISP 5 - R	Pastel yellow (1034)
Agar	ISP 5 - A	Pure white (9010)
Agar	ISP 5 - S	Saffron yellow (1017)
Agar	ISP 6 - G	Decreased
Agar	ISP 6 - R	Pastel yellow (1034)
Agar	ISP 6 - A	None
Agar	ISP 6 - S	None
Agar	ISP 7 - G	Good
Agar	ISP 7 - R	Pastel orange (2003)
Agar	ISP 7 - A	Cream (9004)
Agar	ISP 7 - S	None
Agar	suter with tyrosine - G	Decreased
Agar	suter with tyrosine - R	Saffron yellow (1017)
Agar	suter with tyrosine - A	Cream (9001)

Agar	suter with tyrosine - S	Sand yellow (1022)
Agar	suter without tyrosine - G	Good
Agar	suter without tyrosine - R	Dahlia yellow (1022)
Agar	suter without tyrosine - A	Pastel yellow (1034)
Agar	suter without tyrosine - S	Sand yellow (1002)
	Sporechains/Sporangia	
Physiology		
Melanin		- - - -
pH	range	
pH	optimum	
temperature	range	
temperature	optimume	
sodim chloride tolerance		7,5%
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 alcaline	5
Api zym	Esterase (C4)	3
Api zym	Esterase Lipase (C8)	3
Api zym	Lipase (C14)	0
Api zym	Leucin arylamidase	5
Api zym	Valine arylamidase	3
Api zym	Cystine arylamidase	2
Api zym	Trypsin	2
Api zym	Chymotrypsin	1
Api zym	Phosphatase acid	4
Api zym	Naphtol-AS-BI-phosphohydrolase	5
Api zym	alpha galactosidase	0
Api zym	beta galactosidase	0
Api zym	beta glucuronidase	0
Api zym	alpha glucosidase	0
Api zym	beta GLUCOSIDASE	5
Api zym	N-acetyl-beta-glucoseamidase	0
Api zym	alpha mannosidase	0
Api zym	alpha fucosidase	0
Api coryne	nitrate reduction	

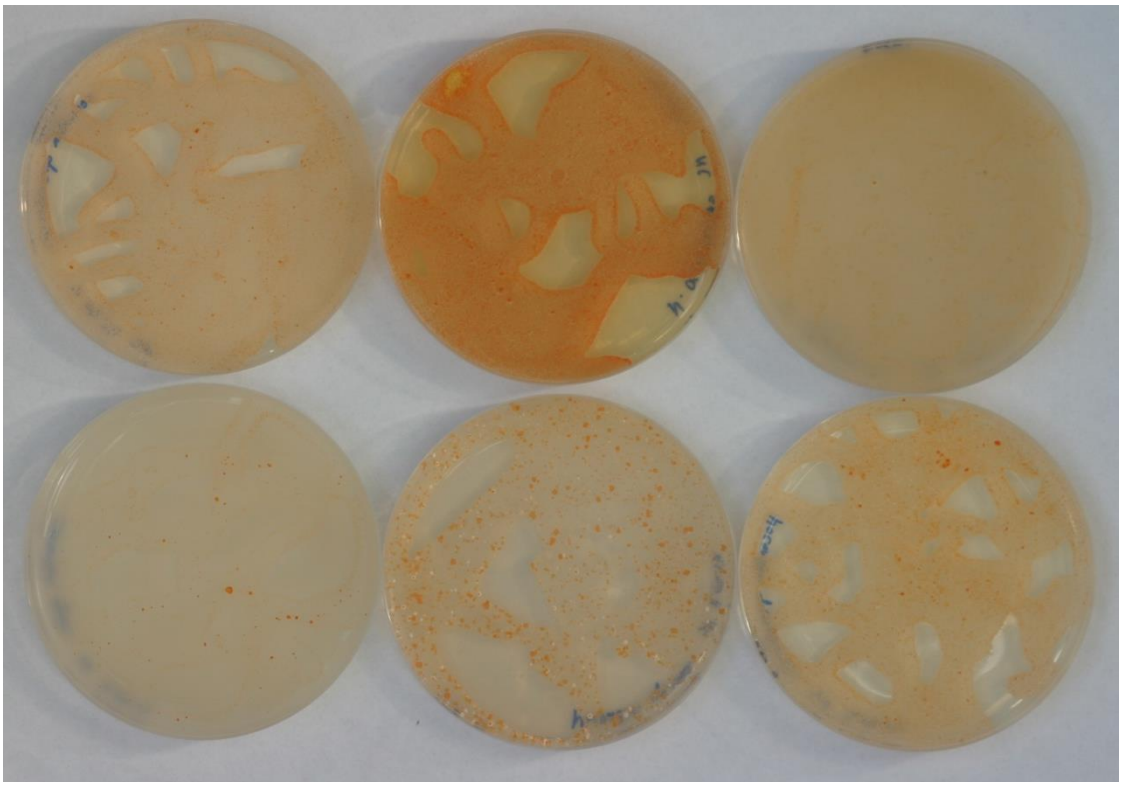
Api coryne	Pyraziamidase	
Api coryne	Pyrrolidonyl arylamidase	-
Api coryne	Alkaline phosphatase	-
Api coryne	beta glucuronidase	-
Api coryne	beta galactosidase	-
Api coryne	alpha glucosidase	-
Api coryne	N-acetyl -beta glucoseamidase	-
Api coryne	Esculin (beta glucosidase)	-
Api coryne	Urease	+
Api coryne	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	-
Metabolites		
Antimicrobial	Staphylococcus aureus	
Antimicrobial	Escherichia coli	
Antimicrobial	Micrococcus luteus	
Antimicrobial	Pseudomonas aeruginosa	
Antimicrobial	Streptomyces murinus	
Antimicrobial	Bacillus subtilis	
Antimicrobial	Candida albicans	
Antimicrobial	Saccharomyces cerevisiae	
Antimicrobial	Aspergillus niger	

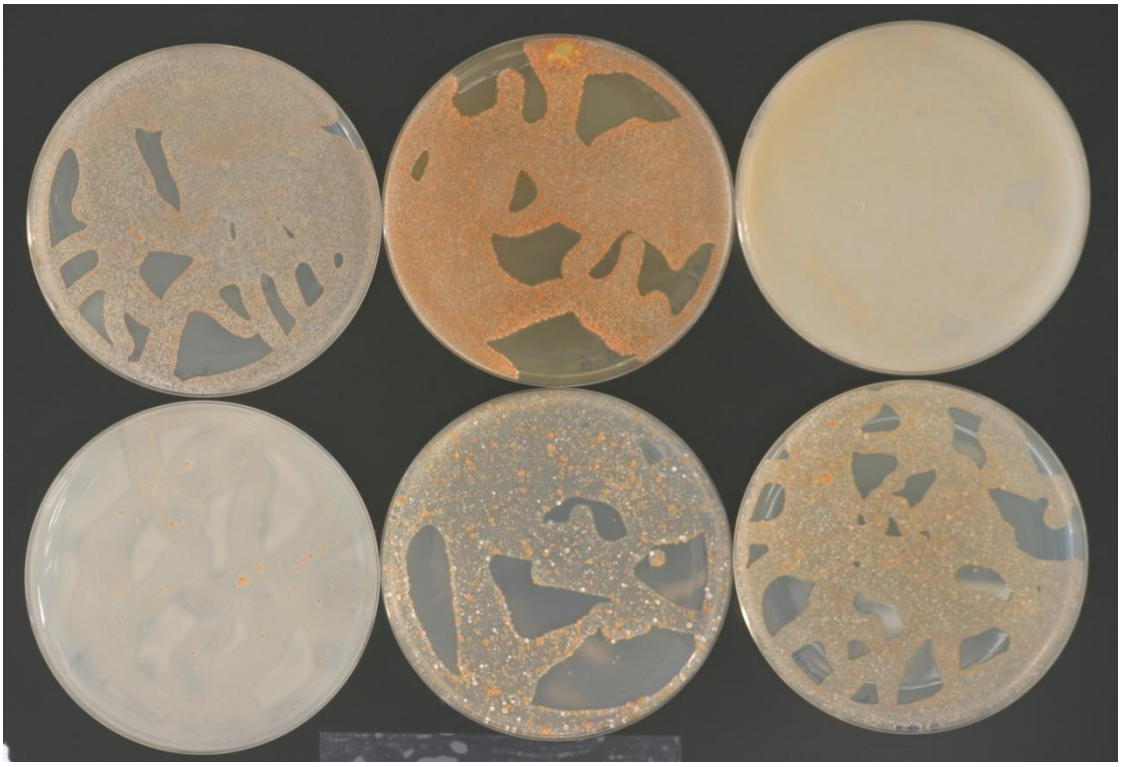
Api coryne

Apizym

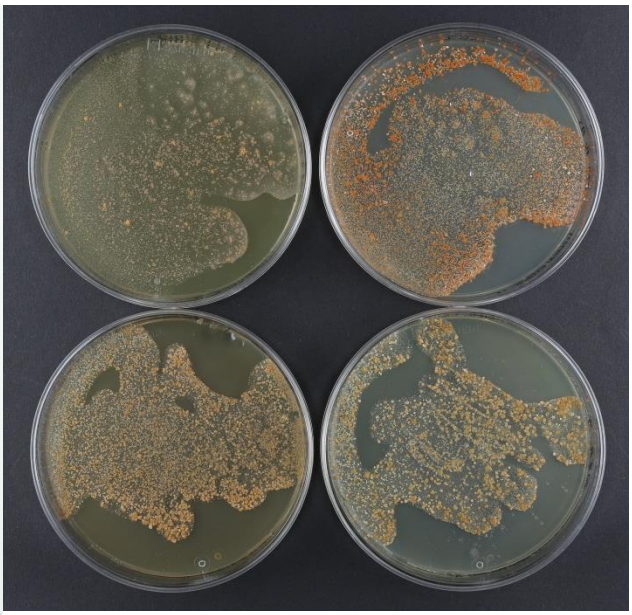


Plates (5006, ISP2, ISP3, ISP4, ISP5, ISP7)

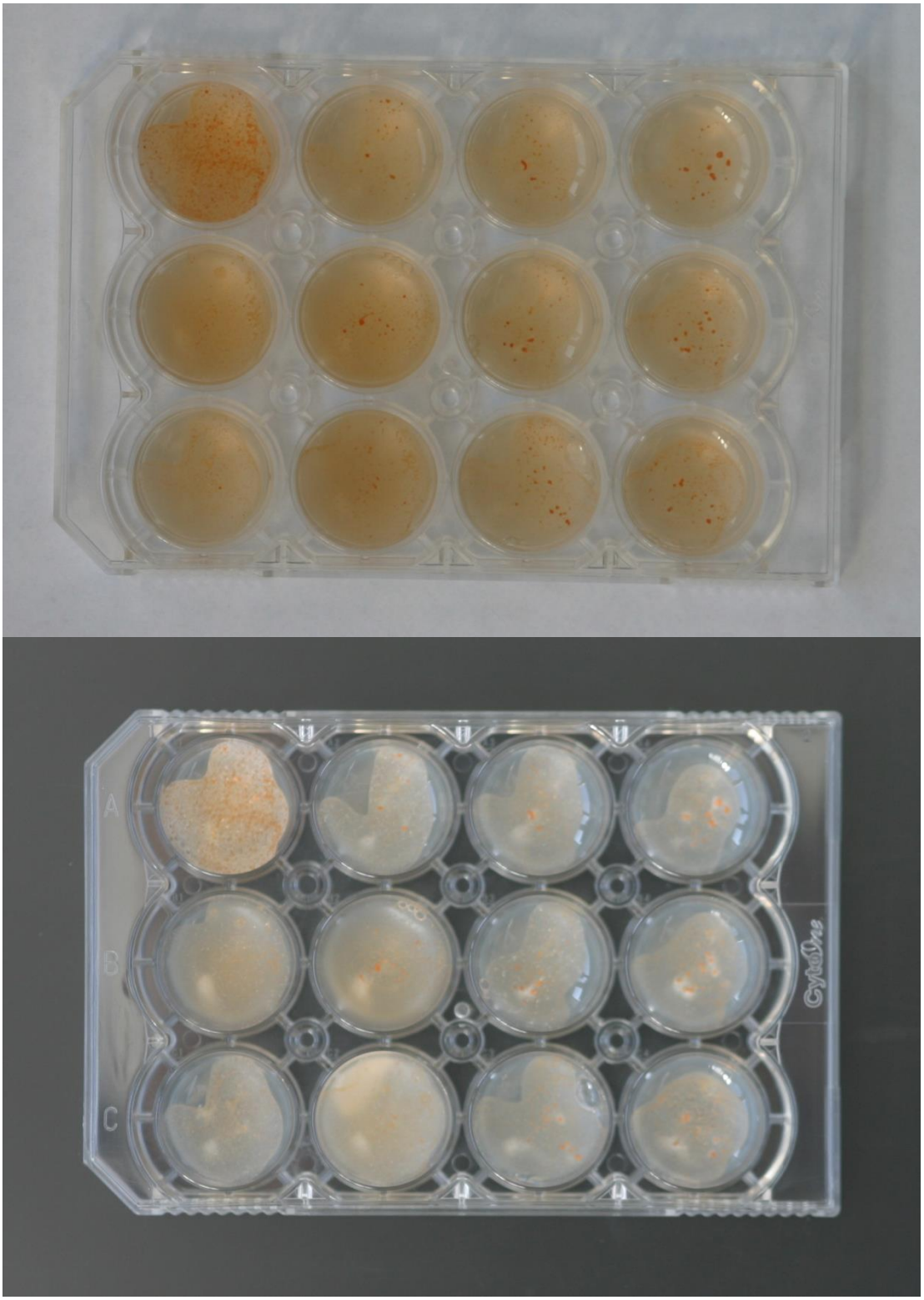




(ISP6, ISP7, SSM+T, SSM-T)



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%)