

Genus	<i>Nocardioides</i>
Species	<i>simplex</i>
Subspecies	
Author	(Jensen 1934) O'Donnel et al. 1983
Reclassification	<i>Arthrobacter simplex</i>
Status	comb. nov.
Type species	ATCC 6946, CCM 1652, DSM 20130, IMET 10368, NCIB 8929, NCTC 4215
Hazard group	1

Comments:

Strain produces Proteases on all media.

The following activities of *N. simplex* are patented:

Degradation of levulinic acid

Production of steroids

Production of L-glutamic acid

Derivatization of Penicilline

Production of inosine and 5 inosinic acid

Genus: *Nocardioides*

FH 2465

Species: *simplex*

Numbers in other collections: DSM 20130

Morphology:

	G	R
<u>ISP 2</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 4</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	colorless
	A	SP
	none	brown

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance:

Lysozyme resistance:

pH: Value-

Optimum-

Temperature : Value-

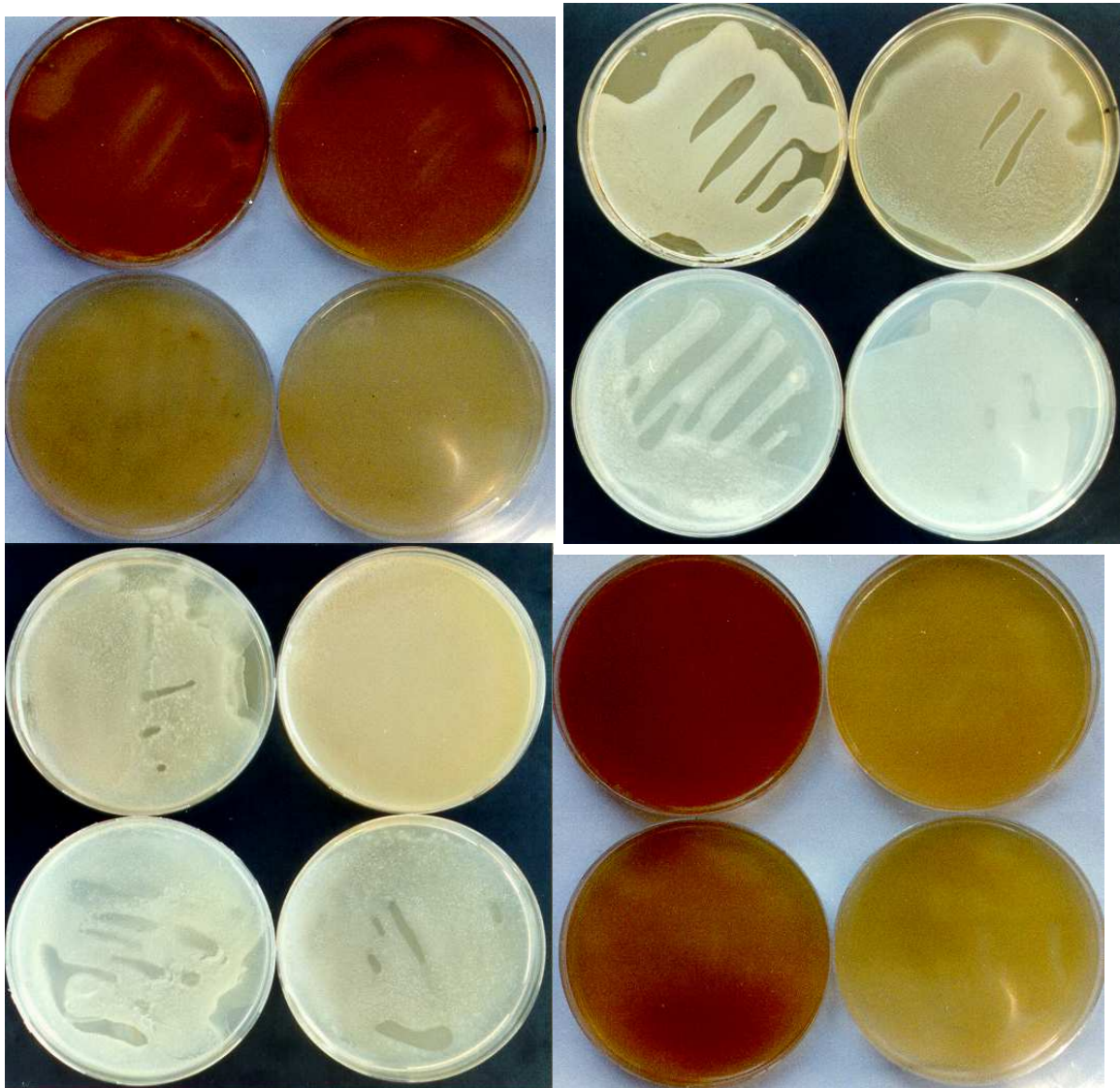
Optimum- 30 °C

Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
					nd				

Enzymes:

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	+	+	+	+	-	+	+	-	-	-



Nocardioides simplex

A and B – Agar plates medium 5006, 5265, 5315 and 5323

C and D – Agar plates medium 5318, 5322, 5337 with and without tyrosine

Genus: *Nocardioides*

FH 2814

Species: *simplex*

Numbers in other collections: ATCC 6946

Morphology:

	G	R
<u>ISP 2</u>	good	colorless
	A	SP
	-	-
	G	R
<u>ISP 3</u>	good	colorless
	A	SP
	-	-
	G	R
<u>ISP 4</u>	sparse	colorless
	A	SP
	-	-
	G	R
<u>ISP 5</u>	sparse	colorless
	A	SP
	-	-
	G	R
<u>ISP 6</u>	none	-
	A	SP
	-	-
	G	R
<u>ISP 7</u>	sparse	colorless
	A	SP
	-	-

Spore chains:

Spore surface:

Sporangia: -

Fragmentation: -

Melanoid pigment: - - - -

NaCl resistance: 5 %

pH: Value-

Optimum-

Temperature : Value-

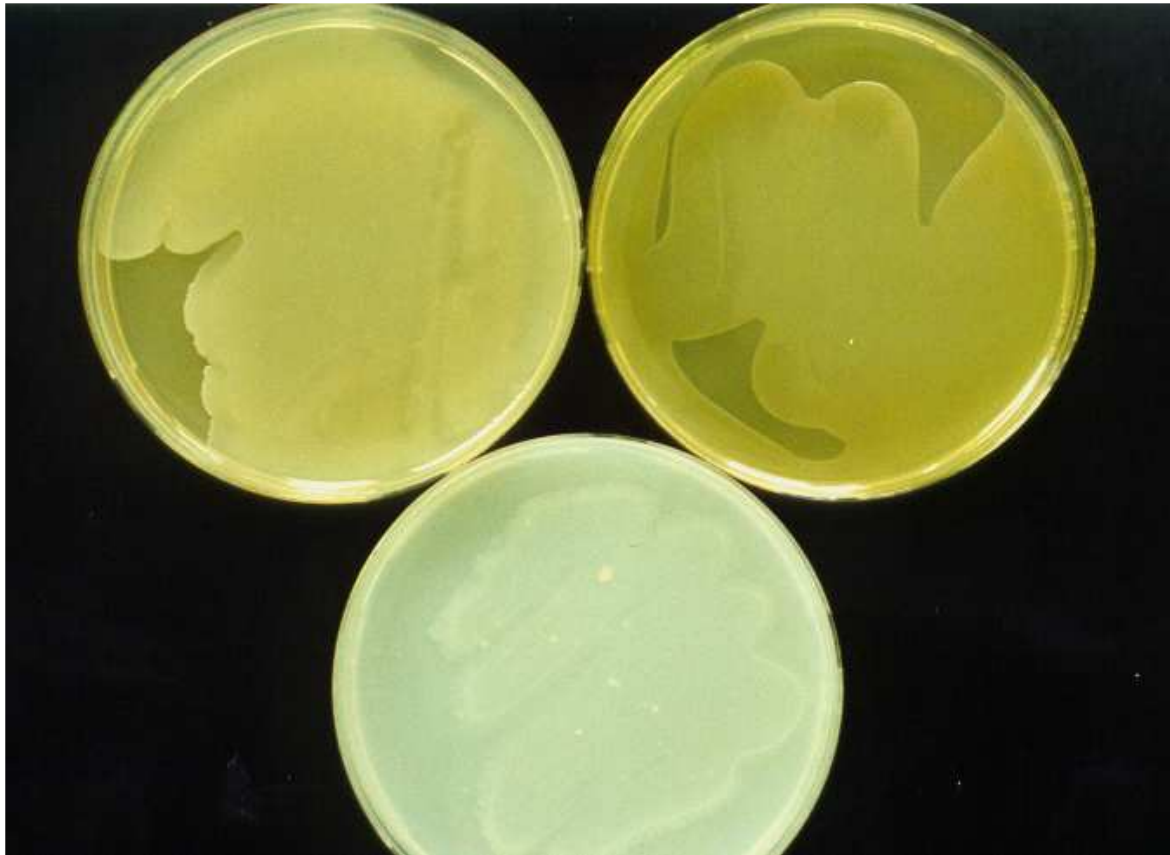
Optimum-

Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	+	+	+	+	+	+	+	+	+

Enzymes:

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H ₂ S
+	+	-	+	+	-	-	-	-	-	-
2+	3-	4-	5+	6+	7+	8+	9+	10+	11+	
12+	13-	14+	15-	16+	17+	18-	19-	20-		
Nit	Pyz	Pyr	Pal	βGur	βGal	αGlu	βNag	Esc	Ure	Gel
-	-	+	+	-	+	+	-	+	-	+
Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg			
-	-	-	-	-	-	-	-			



Nocardioides simplex

A – Agar plates medium 5006, 5265 and 5315

B – Microplate with ISP- and melanin media

C – Api Zym, 20E and Coryne (from the top)

