

Name: *Pseudonocardia hydrocarbonoxydans*

Authors: (Nolof and Hirsch 1962) Warwick et al. 1994

Status: New Combination

Literature: Int. J. Syst. Bacteriol. 44:298

Risk group: 1 (German classification)

Type strain: ATCC 15104, DSM 43281, IMET 7645,  
NCIB 9436, NRRL B-16171

Synonyms: *Nocardia hydrocarbonoxydans* (basonym),  
*Amycolata hydrocarbonoxydans* (basonym)

Author(s) Nolof, G., Hirsch, P.

Title *Nocardia hydrocarbonoxydans* n. sp., ein oligocarbophiler Actinomycet.

Journal Arch. Mikrobiol.

Volume 44

Page(s) 266-277

Year 1962

Fatty acid pattern:

14 : 0 Iso	2,0	16 : 0 9 methyl	3,0
14 : 0	1,0	16 : 0 10 methyl	2,0
15 : 0 Iso	7,0	17 : 0 Iso	2,5
15 : 1 B	2,0	17 : 0 Anteiso	1,0
15 : 0	4,0	17 : 1 cis 9	10,5
16 : 1 Iso H	2,5	17 : 0	3,5
16 : 0 Iso	28,0	17 : 0 10 methyl	1,0
16 : 1 cis 9	5,0	18 : 1 cis 9	18,5
16 : 0	6,0	18 : 0	5,0

**Genus:** *Pseudonocardia*

**FH 2467**

**Species:** *hydrocarbonoxidans*

**Numbers in other collections:** **DSM 43281**

Morphology:

	G	R
<u>ISP 2</u>	good	signal yellow
	A	SP
	white	none
	G	R
<u>ISP 3</u>	good	signal yellow
	A	SP
	white	none
	G	R
<u>ISP 4</u>	good	yellow
	A	SP
	white	none
	G	R
<u>ISP 5</u>	good	yellow
	A	SP
	white	none
	G	R
<u>ISP 6</u>	good	yellow
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	yellow
	A	SP
	none	red

Spore chains:

Spore surface: smooth

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
+	+	+	(+)	-	-	-	(+)	(+)	(+)

**Enzymes:**

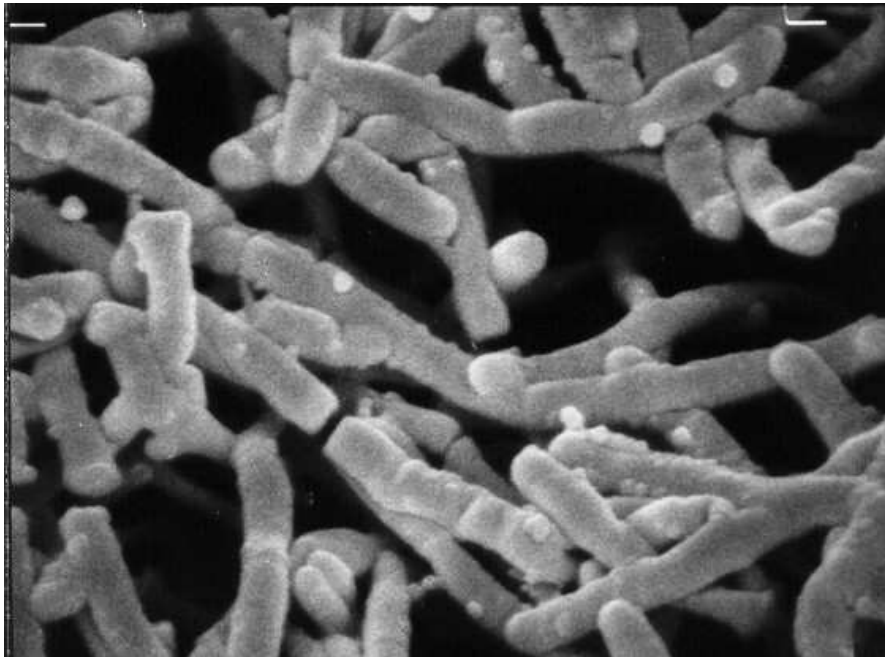
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H <sub>2</sub> S
+	+	+	+	+	-	+	+	+	-	-
2+	3-	4+	5-	6+	7+	8+	9+	19+	11+	12+
13+	14(+)	15-	16+	17+	18-	19-	20-			



***Pseudonocardia hydrocarbonoxidans***

A - Agar plates medium 5265, 5315, 5317 and 5323

B – Agar plates medium 5006, 5318, 5322, 5337 with and without tyrosine



***Pseudonocardia hydrocarbonoxidans***

C – Fragmentation of aerial mycelium (SEM x 10.000)