

| | |
|------------------|-----------------------|
| Genus | <i>Pseudonocardia</i> |
| Species | <i>thermophila</i> |
| Subspecies | |
| Author | Henssen 1957 |
| Reclassification | |
| Status | valid |
| Type species | ATCC 19285, DSM 43832 |
| Hazard group | 1 |

Lit. Henssen, A. 1957
Beiträge zur Morphologie und Systematik der thermophilen Actinomyceten.
Arch. Mikrobiol. 26: 373-416

Reichert, K., Lipski, A., Pradella, S., Stackebrandt, E. and Altendorf, K. 1998.
Pseudonocardia asaccharolytica sp. nov. and *Pseudonocardia sulfidoxydans* sp. nov., two new dimethyl disulfide-degrading actinomycetes and emended description of the genus *Pseudonocardia*.
Int. J. Syst. Bact. 48: 441-449

Huang, Y., Wang, L., Lu, Z., Hong, L., Liu, Z., Tan, G., Y., A. and Goodfellow, M. 2002.
Proposal to combine the genera *Actinobispora* and *Pseudonocardia* in an emended genus *Pseudonocardia*, and description of *Pseudonocardia zijingensis* sp. nov.
Int. J. Syst. Evol. Microbiol. 52: 977-982

Fatty acid pattern:

| | | | |
|----------------|------|------------------|------|
| 12 : 0 Iso | 0,5 | 16 : 1 cis 9 | 4,5 |
| 13 : 0 Iso | 0,5 | 16 : 0 | 7,0 |
| 13 : 0 Anteiso | 0,5 | 16 : 0 9 methyl | 3,0 |
| 14 : 0 Iso | 6,0 | 17 : 1 Anteiso | 4,0 |
| 14 : 0 | 1,0 | 17 : 0 Iso | 4,0 |
| 15 : 0 Iso | 7,0 | 17 : 0 Anteiso | 11,0 |
| 15 : 0 Anteiso | 16,0 | 17 : 0 10 methyl | 0,5 |
| 15 : 0 | 1,0 | 18 : 1 Iso H | 1,0 |
| 16 : 1 Iso H | 4,0 | 18 : 0 | 1,0 |
| 16 : 0 Iso | 31,0 | | |

Genus: *Pseudonocardia*

FH 2395

Species: *thermophila*

Numbers in other collections: DSM 43832

Morphology:

| | | |
|--------------|-------|-----------|
| | G | R |
| <u>ISP 2</u> | good | colorless |
| | A | SP |
| | white | 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 | red |
| | G | R |
| <u>ISP 7</u> | good | colorless |
| | A | SP |
| | none | brown |

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 5 %

Lysozyme resistance:

pH: Value- Optimum-

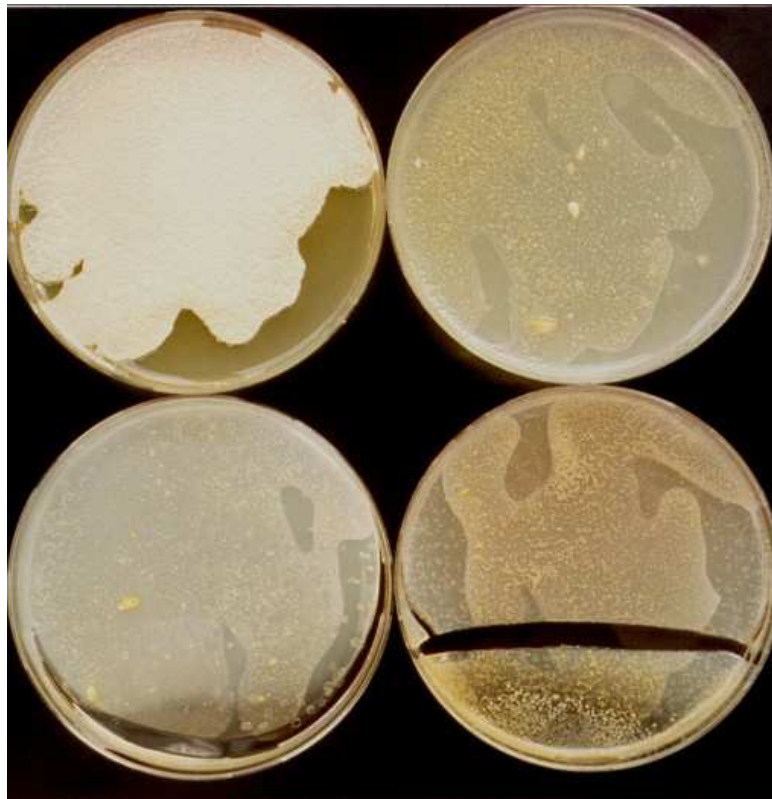
Temperature : Value- Optimum- 40 °C

Carbon utilization:

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ara | Suc | Xyl | Ino | Man | Fru | Rha | Raf | Cel |
| + | - | - | - | (+) | + | - | - | - | - |

Enzymes:

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gel | Cit | Ure | Arg | Onp | Trp | Lys | Odc | VP | Ind | H2S |
| + | + | + | - | - | - | + | + | - | - | - |
| 2+ | 3- | 4+ | 5- | 6+ | 7+ | 8+ | 9+ | 10+ | 11+ | 12+ |
| 13- | 14+ | 15- | 16+ | 17+ | 18+ | 19- | 20+ | | | |



Pseudonocardia thermophila

A – Agar plates medium 5265, 5315 and 5317

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