

Certificate of Analysis for NR-49260

Mycobacterium canettii, Strain NLA000701671

Catalog No. NR-49260

Product Description: *Mycobacterium canettii* (*M. canettii*), strain NLA000701671 was isolated in October 2007 from human sputum in the Netherlands.

Lot¹: 63954380 Manufacturing Date: 18MAR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis ²		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology ³	Report results	Circular, slight peaked, undulate, smooth and cream
Growth rate	≥ 7 days	22 days
Growth at 26°C	Negative	Negative
Growth at 37°C	Positive	Positive
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
Pigmentation in the dark (Scotochromogen)	Negative (no pigment)	Negative (no pigment)
Photoinduction for 1 hour (Photochromogen)	Negative (no pigment)	Negative (no pigment)
Nonchromogen (no pigment)	Positive (no pigment)	Positive (no pigment)
Biochemical tests		
Niacin production ⁴	Report results	Positive ^{4,5}
Nitrate reduction	Positive	Positive
Pyrazinamidase	Positive	Positive
Genotypic Analysis		
Sequencing of Heat Shock Protein 65 gene (~ 430 base pairs)	≥ 99% sequence identity to <i>M. canettii</i> strain CIPT 140060007 (GenBank: AJ749924.1)	100% sequence identity to M. canettii strain CIPT 140060007 (GenBank: AJ749924.1) ⁶
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment ⁷	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Tryptic Soy agar ⁸	Report results	Growth consistent with expected colony morphology
Viability (post-freeze) ³	Growth	Growth

NR-49260 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 37 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

²Information on Mycobacterium testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." <u>Biochemical Testing.</u> (2012) Jose C. Jimenez-Lopez (Ed.), InTech, http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://example.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing/biochemical-isolation-and-identification-of-mycobacteria-testing-testi

³22 days at 37°C in an aerobic atmosphere with 5% CO₂ on Middlebrook 7H10 agar with OADC enrichment

⁴All mycobacteria produce niacin but only M. tuberculosis accumulates it, resulting in a positive test for M. tuberculosis.

⁵The niacin specification was established following Vincent, V., et al. "Mycobacterium: Phenotypic and Genotypic Identification." In: Murray, P. R., et al. (Eds.), Manual of Clinical Microbiology (8th ed.) Washington, D.C.: ASM Press, pp. 560-584, when M. canettii was classified as a subspecies of M. tuberculosis. M. canettii has since been effectively published, though not validly published, as its own species within the M. tuberculosis complex and a niacin production specification has not yet been determined since both positive and negative results have been reported in the literature.

⁶Also consistent with *M. africanum*, *M. bovis*, *M. canettii*, *M. caprae* and *M. microti*

⁷Purity of this lot was assessed for 80 days at 37°C in an aerobic atmosphere with 5% CO₂.

⁸Purity of this lot was assessed for 22 days at 37°C in an aerobic atmosphere with 5% CO₂.



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Date: 30 JUL 2017

Signature:

BEI Resources Authentication

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