

***Mycobacterium caprae*, Strain NLA000700039**
Catalog No. NR-49259
Product Description: *Mycobacterium caprae* (*M. caprae*), strain NLA000700039 was isolated in December 2006 from human pus.

Lot¹: 63954377
Manufacturing Date: 18MAR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis^{2,3} Cellular morphology Colony morphology ⁴ Growth rate Growth at 26°C Growth at 37°C Acid-fast stain Pigmentation in the dark (Scotochromogen) Photoinduction for 1 hour (Photochromogen) Nonchromogen (no pigment) Biochemical tests Niacin production ⁵ Nitrate reduction Pyrazinamidase	Gram-positive rods Report results ≥ 7 days Report results Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment) Negative Negative Positive	Gram-positive rods Irregular, slight peaked, undulate, rough and cream (Figure 1) 22 days Negative Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Negative (no pigment) Positive (no pigment) Negative Positive ⁶ Positive
Genotypic Analysis Sequencing of Heat Shock Protein 65 gene (~ 420 base pairs)	≥ 99% sequence identity to <i>M. caprae</i> type strain (GenBank: AF547884.1)	100% sequence identity to <i>M. caprae</i> type strain (GenBank: AF547884.1) ⁷
Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment ⁸ Tryptic Soy agar ⁹	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology No growth
Viability (post-freeze)⁴	Growth	Growth

¹NR-49259 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.

²Information on Mycobacterium testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." *Biochemical Testing*. (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. Portals. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." *Int. J. Syst. Bacteriol.* 42 (1992): 315-323. PubMed: 1581193.

³Phenotypic characterization of *M. caprae* was performed following: Aranaz, A., et al. "*Mycobacterium tuberculosis* subsp. *caprae* subsp. nov.: A Taxonomic Study of a New Member of the *Mycobacterium tuberculosis* Complex Isolated from Goats in Spain." *Int. J. Syst. Bacteriol.* 49 (1999): 1263-1273. PubMed: 10425790.

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

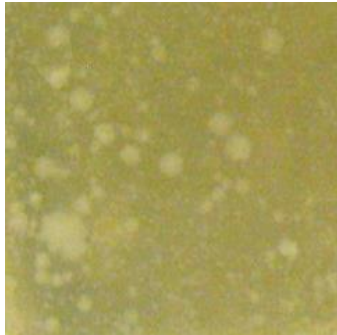
⁵All mycobacteria produce niacin but only *M. tuberculosis* accumulates it, resulting in a positive test for *M. tuberculosis*.

⁶NR-49259 was deposited as *M. caprae* and is reported to be negative for nitrate reduction. Testing performed in triplicate by BEI Resources indicates a positive result.

⁷Also consistent with *M. africanum*, *M. bovis*, *M. microti* and *M. tuberculosis*
⁸Purity of this lot was assessed for 80 days at 37°C in an aerobic atmosphere with 5% CO₂.

⁹Purity of this lot was assessed for 22 days at 37°C in an aerobic atmosphere with 5% CO₂.

Figure 1: Colony Morphology

**Date:** 26 OCT 2017**Signature:**A handwritten signature in black ink, appearing to read "David C. Archer".

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