

***Mycobacterium pinnipedii*, Strain NLA000601757**

Catalog No. NR-49257

Product Description: *Mycobacterium pinnipedii* (*M. pinnipedii*), strain NLA000601757 was isolated in 2006 from a sea lion in a zoo.

Lot¹: 63954368

Manufacturing Date: 18MAR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis² Cellular morphology Colony morphology ³ 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 ⁴ 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) Report results Report results Report results	Gram-positive rods Irregular, slight peaked, undulate, rough and cream 22 days Negative Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Negative (no pigment) Positive (no pigment) Negative Negative Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 850 base pairs)	≥ 99% sequence identity to <i>M. pinnipedii</i> type strain (GenBank: MWXB01000053.1)	100% sequence identity to <i>M. pinnipedii</i> type strain (GenBank: MWXB01000053.1) ⁵
Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment ⁶ Tryptic Soy agar ⁶	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology No growth
Viability (post-freeze)³	Growth	Growth

¹NR-49257 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. Portaels. "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.

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*.

⁵Also consistent with *M. africanum*, *M. bovis*, *M. caprae*, *M. microti* and *M. tuberculosis*

⁶Purity of this lot was assessed for 80 days at 37°C in an aerobic atmosphere with 5% CO₂.

/Heather Couch/
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8 AUG 2018

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