

***Leishmania mexicana*, Strain MNYC/BZ/62/M379 (+*luc*)**

**Catalog No. NR-51210**

**Product Description:**

*Leishmania mexicana* (*L. mexicana*), strain MNYC/BZ/62/M379 (+*luc*) is a transgenic clone derived from the parent MNYC/BZ/62/M379 strain. Strain MNYC/BZ/62/M379, also referred to as M 379 or MNYZ/BZ/62/M379, was originally isolated in 1962 from a *Nyctomys sumichrasti* (vesper rat) in Cayo District, Belize (formerly British Honduras). NR-51210 lot 70014487 was produced by cultivation of the deposited material in Modified Medium 199 (M199) with Hanks' salts supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) and 10 µg/mL hemin for 3 days at 25°C in an aerobic atmosphere to produce this lot.

**Lot: 70014487**

**Manufacturing Date: 05APR2018**

TEST	SPECIFICATIONS	RESULTS
<b>Cell Morphology<sup>1</sup></b> 2 days at 25°C in an aerobic atmosphere in M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated, motile, refractile
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 1010 base pairs)	≥ 99% sequence identity to <i>L. mexicana</i> , strain MNYC/BZ/62/M379 (GenBank: AF466383.1)	99.0% sequence identity to <i>L. mexicana</i> , strain MNYC/BZ/62/M379 (GenBank: AF466383.1)
<b>Functional Activity of Luciferase Gene<sup>2,3</sup></b>	Positive	Positive
<b>Viable Cell Count by Hemacytometry<sup>2</sup></b>	> 10 <sup>6</sup> cells per mL	5.4 × 10 <sup>8</sup> cells per mL
<b>Viability<sup>1</sup></b> 2 days at 25°C in an aerobic atmosphere in M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin	Growth	Growth
<b>Sterility (21-day incubation)<sup>1</sup></b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>4</sup> Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth

<sup>1</sup>Testing completed on vial, post-freeze material

<sup>2</sup>Testing completed on bulk material prior to vialing and freezing

<sup>3</sup>Luciferase activity was determined using the *Renilla* Luciferase Assay System (Promega E2810). Parasites were lysed and incubated with luciferase assay reagent. Luciferase activity was measured using a luminometer with a bioluminescence emission spectra of 480 nm.

<sup>4</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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