

***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 was produced by cultivation of BEI Resources seed lot 70014489 in Modified Medium 199 supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) and 10 µg/mL hemin for 4 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70082111
Manufacturing Date: 06APR2026

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 1 day at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Motile and refractile
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 920 base pairs)	≥ 99% sequence identity to <i>L. mexicana</i> , strain MNYC/BZ/62/M379 (GenBank: AF466383.1)	99.8% sequence identity to <i>L. mexicana</i> , strain MNYC/BZ/62/M379 (GenBank: AF466383.1)
Functional Activity of Luciferase Gene^{2,3}	Positive	Positive
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells/mL	4.6 × 10 ⁸ cells/mL
Viability¹ 1 day at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Growth	Growth
Sterility (14-day incubation)¹ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°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

¹Testing completed on vialled, post-freeze material

²Testing completed on bulk material prior to vialing and freezing

³Luciferase 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.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

11 AUG 2026

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

