

***Leishmania mexicana*, Strain ΔImgt**

Catalog No. NR-21979

Product Description: *Leishmania mexicana* (*L. mexicana*), strain ΔImgt was constructed by targeted gene replacement of the three *Leishmania* glucose transporter (*LmGT*) alleles of strain MNYC/BZ/62/M379 with puromycin acetyltransferase and streptothricin acetyltransferase genes (encoding resistance markers for the antibiotics puromycin and nourseothricin, respectively). Strain MNYC/BZ/62/M379 was originally isolated from *Nyctomys sumichrasti* (rat) in Cayo District, Belize, 1962.

Lot¹: 60704412

Manufacturing Date: 02APR2012

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S ribosomal RNA gene and internal transcribed spacer (ITS) 1 (~ 1010 base pairs) Sequencing of ITS 1, 5.8S ribosomal RNA gene, ITS 2 (~ 950 base pairs)	Consistent with <i>Leishmania</i> species Consistent with <i>L. mexicana</i> species complex ²	Consistent with <i>Leishmania</i> species Consistent with <i>L. mexicana</i> species complex ^{2,3}
PCR Assay of Extracted DNA 18S ribosomal RNA gene ITS 1, 5.8S ribosomal RNA gene, ITS 2	~ 2500 base pair amplicon ~ 1200 base pair amplicon	~ 2500 base pair amplicon ~ 1200 base pair amplicon
Confirmation of ΔLmGT1 by PCR Assay of Extracted DNA <i>L. venezuelensis</i> , strain MHOM/VE/80/H-16 (NR-29184) ² <i>L. mexicana</i> , strain ΔImgt(NR-21979)	~ 2500 base pair amplicon No amplicon	~ 2500 base pair amplicon No amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	4.9 x 10 ⁷ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 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 No growth No growth No growth No growth

¹NR-21979 was produced by cultivation of the deposited material in Modified M199 medium supplemented with 10% heat-inactivated fetal bovine serum and 10 µg/mL hemin for 5 days at 25°C aerobic atmosphere to produce this lot.

²*L. mexicana* species complex (*L. mexicana*, *L. amazonensis* and *L. venezuelensis*)

³>99% identical to *L. mexicana*, strain MNYC/BZ/62/M379 (GenBank: AF466383.1)

⁴Viable cells were observed after 4 days under cultivation conditions.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 09 AUG 2013

Signature:



Title:

Technical Manager, BEI Authentication or designee

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