

**Leishmania venezuelensis, Strain MHOM/VE/80/H-16**

**Catalog No. NR-29184**

**Product Description:**

*Leishmania venezuelensis* (*L. venezuelensis*), strain MHOM/VE/80/H-16 was isolated in 1980 from the skin ulcer of a human patient with cutaneous leishmaniasis in Venezuela. NR-29184 was produced by inoculation of BEI Resources seed lot 60240099 into Medium 199 (M199) supplemented with 10% HIFBS and 10 µg/mL hemin and grown for 3 days at 25°C in an aerobic atmosphere to produce this lot.

**Lot: 70057110**

**Manufacturing Date: 08DEC2022**

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TEST	SPECIFICATIONS	RESULTS
<b>Cellular Morphology<sup>1</sup></b> 3 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated and rounded forms, refractile; rosettes visible
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 1010 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene ( <i>nagt</i> ) (~ 1320 base pairs)	Consistent with <i>L. mexicana</i> ≥ 99% sequence identity to <i>L. mexicana nagt</i> (GenBank: DQ836161.1)	Consistent with <i>L. mexicana</i> <sup>3</sup> 100% sequence identity to <i>L. mexicana nagt</i> (GenBank: DQ836161.1) <sup>3,4</sup>
<b>Viable Cell Count by Hemacytometry<sup>2</sup></b>	> 10 <sup>6</sup> cells per mL	2.7 × 10 <sup>8</sup> cells per mL
<b>Viability<sup>1</sup></b> 3 day at 25°C in an aerobic atmosphere in M199 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>5</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>The phylogenetic status of *L. venezuelensis* as a species, subspecies or variant of *L. mexicana*, or as a member of the *L. mexicana* species complex, is unresolved. For more information, please refer to: Akhoundi, M., et al. "A Historical Overview of the Classification, Evolution, and Dispersion of *Leishmania* Parasites and Sandflies." *PLoS Negl. Trop. Dis.* 10 (2016): e0004349. PubMed: 26937644. Erratum in: *PLoS Negl. Trop. Dis.* 10 (2016): e0004770. and Rivas, AK., et al. "Clinical and Diagnostic Aspects of Feline Cutaneous Leishmaniasis in Venezuela." *Parasit. Vectors* 11 (2018): 141. PubMed: 29554979.

<sup>4</sup>Waki, K., et al. "Transmembrane Molecules for Phylogenetic Analyses of Pathogenic Protists: *Leishmania*-Specific Informative Sites in Hydrophilic Loops of Trans-Endoplasmic Reticulum N-Acetylglucosamine-1-Phosphate Transferase." *Eukaryot. Cell.* 6 (2007): 198-210. PubMed: 17142569.

<sup>5</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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30 MAR 2023

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