

***Leishmania major*, Strain HOM/UZ/91/RM**

**Catalog No. NR-50596**

**Product Description:**

*Leishmania major* (*L. major*), strain HOM/UZ/91/RM was isolated from a human with cutaneous leishmaniasis in Uzbekistan and was deposited to BEI Resources as an N-acetylglucosamine-1-phosphate transferase (*nagt*) gene variant 1 strain. The deposited material was inoculated into Medium 199 (M199) with Hanks' salts supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) and 10 µg/mL hemin and grown for 7 days at 25°C in an aerobic atmosphere, and the resulting subculture was vialled and frozen. NR-50596 was produced by inoculation of the frozen subculture into M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin for 13 days at 25°C in an aerobic atmosphere to produce this lot.

**Lot: 70028937**

**Manufacturing Date: 10OCT2019**

TEST	SPECIFICATIONS	RESULTS
<b>Cell Morphology<sup>1</sup></b>	Report results	Refractile, rosettes visible
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (540 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene ( <i>nagt</i> ) (~ 1350 base pairs)	≥ 99% sequence identity to <i>L. major</i> , strain LV39c5 (GenBank: AODR01000399.1) ≥ 99% sequence identity to <i>nagt</i> variant 1 (GenBank: AF205931.1)	100% sequence identity to <i>L. major</i> , strain LV39c5 (GenBank: AODR01000399.1) <sup>3</sup> 100% sequence identity to <i>nagt</i> variant 1 (GenBank: AF205931.1) <sup>4</sup>
<b>Viable Cell Count by Hemacytometry<sup>2</sup></b>	> 10 <sup>6</sup> cells per mL	6.7 × 10 <sup>6</sup> cells per mL
<b>Viability<sup>1</sup></b> 3 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>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 vialled, post-freeze material.

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

<sup>3</sup>Also consistent with other *Leishmania* species

<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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