

***Leishmania panamensis*, Strain HOM/PA/71/LS94**

**Catalog No. NR-50609**

**Product Description:**

*Leishmania panamensis* (*L. panamensis*), strain HOM/PA/71/LS94 was isolated in 1971 from a human with cutaneous leishmaniasis in Panama. 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 8 days at 25°C in an aerobic atmosphere, and the resulting subculture was vialled and frozen. NR-50609 was produced by inoculation of the frozen subculture into M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin for 10 days at 25°C in an aerobic atmosphere to produce this lot.

**Lot: 70033314**

**Manufacturing Date: 06APR2020**

TEST	SPECIFICATIONS	RESULTS
<b>Cell Morphology<sup>1</sup></b> 7 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 to ovoid and motile; rosettes visible
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (920 base pairs)  Sequencing of N-acetylglucosamine-1-phosphate transferase gene ( <i>nagt</i> ) (1310 base pairs)	≥ 99% sequence identity to <i>L. panamensis</i> , strain MHOM/PA/94/PSC-1 (GenBank: CP009396.1) ≥ 99% sequence identity to <i>L. panamensis nagt</i> gene (GenBank: DQ836163.1)	100% sequence identity to <i>L. panamensis</i> , strain MHOM/PA/94/PSC-1 (GenBank: CP009396.1) <sup>3</sup> 99.9% sequence identity to <i>L. panamensis nagt</i> gene (GenBank: DQ836163.1) <sup>4</sup>
<b>Viable Cell Count by Hemacytometry<sup>1</sup></b>	> 10 <sup>6</sup> cells per mL	5 × 10 <sup>6</sup> cells per mL
<b>Viability<sup>1</sup></b> 7 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 *L. guyanensis* and *L. braziliensis*

<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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