

***Leishmania tropica*, Strain HOM/TR/03/EP82**

Catalog No. NR-50598

Product Description:

Leishmania tropica (*L. tropica*), strain HOM/TR/03/EP82 was isolated 2003 from a human with cutaneous leishmaniasis in Aydin, Turkey, and deposited to BEI Resources as an N-acetylglucosamine-1-phosphate transferase (*nagt*) gene variant 6 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-50598 was produced by inoculation of the frozen subculture into M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin for 6 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70028939

Manufacturing Date: 03OCT2019

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹	Report results	Elongated and refractile, rosettes visible
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 810 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>nagt</i>) (~ 1320 base pairs)	≥ 99% sequence identity to <i>L. tropica</i> , strain MHOM/LB/2015/IK (GenBank: QEHO01000008.1) ≥ 99% sequence identity to <i>nagt</i> variant 6 (GenBank: DQ836154.1)	99.0% sequence identity to <i>L. tropica</i> , strain MHOM/LB/2015/IK (GenBank: QEHO01000008.1) 100% sequence identity to <i>nagt</i> variant 6 (GenBank: DQ836154.1) ³
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells per mL	4.8 × 10 ⁷ cells per mL
Viability¹ 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
Sterility (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ⁴ 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

¹Testing completed on vialled, post-freeze material.

²Testing completed on bulk material prior to vialling and freezing.

³Waki, 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.

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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