

Leishmania tropica, Strain HOM/TR/99/EP41

Catalog No. NR-51828

Product Description:

Leishmania tropica (*L. tropica*), strain HOM/TR/99/EP41 was isolated in 1999 from a human with cutaneous leishmaniasis in Sanliurfa, Turkey. The deposited material was inoculated into Medium 199 (M199) 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-51828 was produced by inoculation of the frozen subculture into M199 supplemented with 10% HIFBS and 10 µg/mL hemin for 3 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70034519

Manufacturing Date: 23APR2020

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| TEST | SPECIFICATIONS | RESULTS |
|---|--|---|
| Cellular Morphology¹ 1 day at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin | Report results | Elongated and refractile, rosettes and flagella visible |
| Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 890 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>pagt</i>) (~ 1290 base pairs) | ≥ 99% sequence identity to <i>L. tropica</i> , isolate 56 (clone 3) (GenBank: FJ948450.1) Consistent with <i>L. tropica</i> | 99.7% sequence identity to <i>L. tropica</i> , isolate 56 (clone 3) (GenBank: FJ948450.1) Consistent with <i>L. tropica</i> ³ |
| Viable Cell Count by Hemacytometry² | > 10 ⁶ cells per mL | 2.8 × 10 ⁸ cells per mL |
| Viability¹ 1 day at 25°C in an aerobic atmosphere in M199 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 vialing 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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31 MAR 2023

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