

***Leishmania donovani*, Strain HOM/IN/83/AG83**

Catalog No. NR-50602

Product Description:

Leishmania donovani (*L. donovani*), strain HOM/IN/83/AG83 was isolated in 1983 from a human with visceral leishmaniasis in West Bengal, India. NR-50602 was produced by inoculation of BEI Resources seed lot 70030922 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: 70067507

Manufacturing Date: 29MAR2024

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TEST	SPECIFICATIONS	RESULTS
Cellular Morphology¹ 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated; rosettes visible (Figure 1)
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 1000 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>nagt</i>) (~ 1320 base pairs)	≥ 99% sequence identity to <i>L. donovani</i> , strain MHOM/IN/00/DEVI (GenBank: AJ634376.1) <i>L. donovani nagt</i> gene (GenBank: DQ836150.1)	100% sequence identity to <i>L. donovani</i> , strain MHOM/IN/00/DEVI (GenBank: AJ634376.1) ³ 100% sequence identity to <i>L. donovani nagt</i> gene (GenBank: DQ836150.1) ⁴
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells/mL	3.4 × 10 ⁸ cells/mL
Viability¹ 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Growth	Growth
Sterility (14-day incubation)¹ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°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

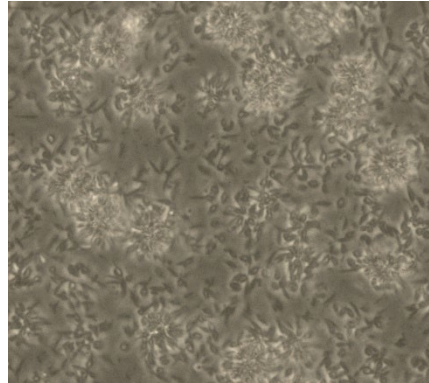
¹Testing completed on vial, post-freeze material.

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

³Also consistent with other members of the *L. donovani* complex, consisting of three species, *donovani*, *infantum* and *chagasi*, which are not differentiated by this assay [Mauricio, I. L., et al. "Genomic Diversity in the *Leishmania donovani* Complex." *Parasitology* 119 (1999): 237-246. PubMed: 10503249].

⁴*L. donovani* is differentiated from *L. infantum* based on a 2-nucleotide difference in the *nagt* gene [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].

Figure 1: Colony Morphology



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