

Leishmania infantum, Strain HOM/TR/03/ADANA #7

Catalog No. NR-50603

Product Description:

Leishmania infantum (*L. infantum*), strain HOM/TR/03/ADANA #7 was isolated in 2003 from a human with cutaneous leishmaniasis in Adana, Turkey. NR-50603 was produced by inoculation of BEI Resources seed lot 70033208 into Medium 199 (M199) supplemented with 10% HIFBS and 10 µg/mL hemin and grown for 2 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70061936

Manufacturing Date: 13JUL2023

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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-to-ovoid, refractile; rosettes visible (Figure 1)
Genotypic Analysis² 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>) (~ 1360 base pairs)	Consistent with <i>L. infantum</i> ≥ 99% sequence identity to <i>L. infantum nagt</i> gene (GenBank: AF205934.1)	Consistent with <i>L. infantum</i> ³ 100% sequence identity to <i>L. infantum nagt</i> gene (GenBank: AF205934.1) ⁴
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells/mL	2.9 × 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 (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ⁵ 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 vial, post-freeze material.

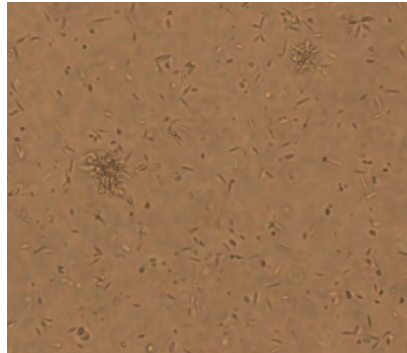
²Testing completed on bulk material prior to vialing and freezing.

³Also consistent with *L. donovani*, a member of the *L. donovani* complex consisting of three species, *donovani*, *infantum* and *chagasi*, which are not differentiated by this assay.

⁴*L. infantum* is differentiated from *L. donovani* and *L. chagasi* 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.)

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: Cellular Morphology



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