

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. 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-50603 was produced by inoculation of the frozen subculture into M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin for 5 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70033207

Manufacturing Date: 04MAR2020

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 1 day at 25°C in an aerobic atmosphere in M199 with Hanks' salts supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Ovoid-to-elongated; flagella visible
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 940 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>nagt</i>) (~ 1350 base pairs)	≥ 99% sequence identity to <i>L. infantum</i> , strain JPCM5 (GenBank: CACT01000031.1) ≥ 99% sequence identity to <i>L. infantum nagt</i> gene (GenBank: AF205934.1)	99.7% sequence identity to <i>L. infantum</i> , strain JPCM5 (GenBank: CACT01000031.1) ³ 100% sequence identity to <i>L. infantum nagt</i> gene (GenBank: AF205934.1) ⁴
Viable Cell Count by Hemacytometry¹	> 10 ⁶ cells per mL	4.2 × 10 ⁸ cells per mL
Viability¹ 2 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 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 vialled, post-freeze material

²Testing completed on bulk material prior to vialing and freezing

³Also consistent with *L. donovani* and *L. chagasi*, members 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.

/Heather Couch/
Heather Couch

05 AUG 2020

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC's knowledge.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

