

Leishmania infantum, Strain HOM/CN/87?/XJ872

Catalog No. NR-51826

Product Description:

Leishmania infantum (*L. infantum*), strain HOM/CN/87?/XJ872 was isolated from a human with visceral leishmaniasis in China. 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-51826 was produced by inoculation of the frozen subculture into M199 supplemented with 10% HIFBS and 10 µg/mL hemin for 4 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70035821

Manufacturing Date: 12MAY2020

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated and motile; rosettes visible
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 1020 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>nagt</i>) (~ 1320 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: DQ836147.1)	99.1% sequence identity to <i>L. infantum</i> , strain JPCM5 (GenBank: CACT01000031.1) ³ 100% sequence identity to <i>L. infantum nagt</i> gene (GenBank: DQ836147.1) ⁴
Viable Cell Count by Hemacytometry¹	> 10 ⁶ cells per mL	2.9 × 10 ⁸ cells per 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 vialled, post-freeze material.

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

³Also consistent with other members of the *L. donovani* complex, which consists of three species, *donovani*, *infantum* and *chagasi*, that 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.).

⁴Waki, 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.

/Sonia Bjorum Brower/
Sonia Bjorum Brower

03 OCT 2025

Technical 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.

