

***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. NR-51826 was produced by inoculation of BEI Resources seed lot 70035822 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: 70072539**

**Manufacturing Date: 25NOV2024**

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TEST	SPECIFICATIONS	RESULTS
<b>Cellular Morphology<sup>1</sup></b> 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated; refractive (Figure 1)
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 990 base pairs)  Sequencing of N-acetylglucosamine-1-phosphate transferase gene ( <i>nagt</i> ) (1380 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) <sup>3</sup> 100% sequence identity to <i>L. infantum nagt</i> gene (GenBank: DQ836147.1) <sup>4</sup>
<b>Viable Cell Count by Hemacytometry<sup>2</sup></b>	> 10 <sup>6</sup> cells/mL	3.2 × 10 <sup>8</sup> cells/mL
<b>Viability<sup>1</sup></b> 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Growth	Growth
<b>Sterility (14-day incubation)<sup>1</sup></b> 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

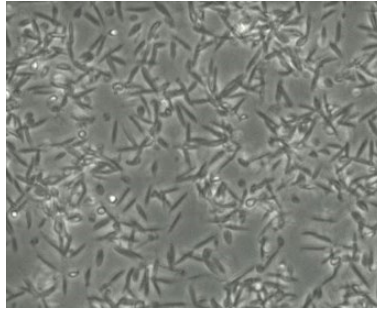
<sup>1</sup>Testing completed on vial, post-freeze material.

<sup>2</sup>Testing completed on bulk material prior to vialing and freezing.

<sup>3</sup>Also 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.)

<sup>4</sup>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: Cellular Morphology



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