Certificate of Analysis for NR-50605

Leishmania infantum, Strain HOM/CN/93/KXG-LIU

Catalog No. NR-50605

Product Description:

Leishmania infantum (L. infantum), strain HOM/CN/93/KXG-LIU was isolated in 1993 from a human with cutaneous leishmaniasis in China. NR-50605 was produced by inoculation of BEI Resources seed lot 70033318 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: 70066653 **Manufacturing Date: 01MAR2024**

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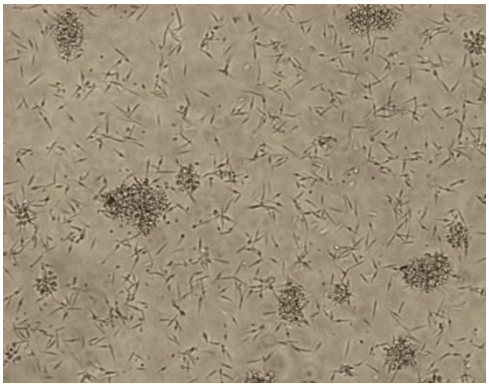
TEST	SPECIFICATIONS	RESULTS
Cellular Morphology[1] 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated; rosettes visible (Figure 1)
Genotypic Analysis[2] Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 970 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene *(nagt)* (~ 1320 base pairs)	 ≥ 99% sequence identity to *L. infantum,* strain JPCM5 (GenBank: CACT01000031.1) ≥ 99% sequence identity to *L. infantum nagt* gene (GenBank: DQ836149.1)	 99.0% sequence identity to *L. infantum,* strain JPCM5 (GenBank: CACT01000031.1)[3] 99.9% sequence identity to *L. infantum nagt* gene (GenBank: DQ836149.1)[4]
Viable Cell Count by Hemacytometry[2]	> 10^6 cells/mL	6.0 × 10^8 cells/mL
Viability[1] 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	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth

[1]Testing completed on vialed, post-freeze material.
[2]Testing completed on bulk material prior to vialing and freezing.
[3]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.).
[4]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.

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower 19 FEB 2025
Technical Manager or designee, ATCC Federal Solutions

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BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898