Certificate of Analysis for NR-48821

Leishmania donovani, Strain 1S (MHOM/SD/62/1S)

Catalog No. NR-48821

This reagent is the tangible property of the U.S. Government.

Product Description:

Leishmania donovani (L. donovani), strain 1S (MHOM/SD/62/1S) was isolated in 1962 from a patient with visceral leishmaniasis in Sudan. NR-48821 was produced by inoculation of BEI Resources seed lot 62990855 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: 70054290 Manufacturing Date: 25JUL2022

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TEST	SPECIFICATIONS	RESULTS
Cellular Morphology[1] 1 day at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated and rounded forms, refractile; rosettes visible
Genotypic Analysis[2]		
Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 980 base pairs)	≥ 99% sequence identity to *L. donovani*, strain BPK282A1 (GenBank: FR799614.1)	100% sequence identity to *L. donovani*, strain BPK282A1 (GenBank: FR799614.1)[3]
Sequencing of N-acetylglucosamine-1-phosphate transferase gene *(nagt)* (~ 1320 base pairs)	≥ 99% sequence identity to *L. donovani nagt* (GenBank: DQ836150.1)	100% sequence identity to *L. donovani nagt* (GenBank: DQ836150.1)[4]
Viable Cell Count by Hemacytometry[2]	> 10^6 cells per mL	1.82 × 10^8 cells per mL
Viability[1] 1 day 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]	No growth	No growth
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
DMEM with 10% FBS, 37°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 *L. infantum*, a member of the *L. donovani* complex consisting of three species, *donovani, infantum* and *chagasi*, which 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.
[5]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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/Sonia Bjorum Brower/
Sonia Bjorum Brower 29 MAR 2023
Technical Manager or designee, ATCC Federal Solutions

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