Certificate of Analysis for NR-48815

Leishmania major, Strain NIH Friedlin V1 (MHOM/IL/80/FN)

Catalog No. NR-48815

Product Description:

Leishmania major (L. major), strain NIH Friedlin V1 (MHOM/IL/80/FN) was isolated in 1980 from a patient with localized cutaneous leishmaniasis in Israel. NR-48815 was produced by inoculation of BEI Resources seed lot 63009497 into Medium 199 (M199) supplemented with 10% HIFBS and 10 µg/mL hemin, which was grown for 7 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70050290 **Manufacturing Date: 11MAR2022**

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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 refractile; rosettes visible
Genotypic Analysis[2]		
Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 1070 base pairs)	≥ 99% sequence identity to *L. major*, strain Friedlin (GenBank: FR796423.1)	99.9% sequence identity to *L. major*, strain Friedlin (GenBank: FR796423.1)[3]
Sequencing of N-acetylglucosamine-1-phosphate transferase gene *(nagt)* (~ 1350 base pairs)	≥ 99% sequence identity to *L. major nagt* (GenBank: AF205930.1)	100% sequence identity to *L. major nagt* (GenBank: AF205930.1)[4]
Viable Cell Count by Hemacytometry[2]	> 10^6 cells per mL	8.6 × 10^7 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 other *Leishmania* species
[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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Technical Manager or designee, ATCC Federal Solutions

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