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 4 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70076735 **Manufacturing Date: 01JUL2025**

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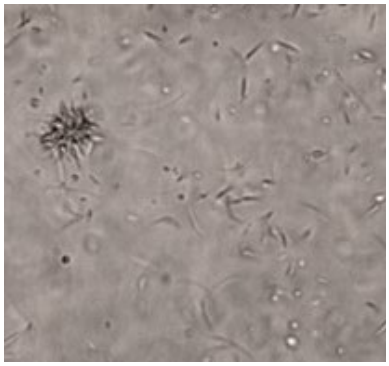
TEST	SPECIFICATIONS	RESULTS
Cellular Morphology[1] 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Elongated and refractile; rosettes visible (Figure 1)
Genotypic Analysis[2] Sequencing of N-acetylglucosamine-1-phosphate transferase gene *(nagt)* (~ 1380 base pairs)	≥ 99% sequence identity to *L. major nagt* (GenBank: AF205930.1)	100% sequence identity to *L. major nagt* (GenBank: AF205930.1)[3,4]
Viable Cell Count by Hemacytometry[2]	> 10^6 cells/mL	3.3 × 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 *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.

Figure 1: Cellular Morphology



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/Sonia Bjorum Brower/
Sonia Bjorum Brower 27 FEB 2026
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.

Support Provided by NIAID

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