Certificate of Analysis for NR-61704

Leishmania braziliensis, Strain HOM/BR/75/M2903

Catalog No. NR-61704

Product Description:

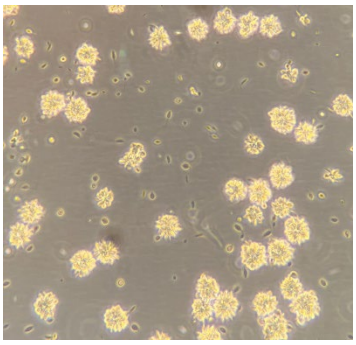
Leishmania braziliensis (L. braziliensis), strain HOM/BR/75/M2903 was isolated in 1975 from the cutaneous lesion of a male in Para, Brazil. The deposited material was inoculated into Medium 199 (M199) supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) and 10 µg/mL hemin and grown for 8 days at 25°C in an aerobic atmosphere, and the resulting subculture was vialed and frozen. NR-61704 was produced by inoculation of the frozen subculture into M199 supplemented with 10% HIFBS and 10 µg/mL hemin for 3 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70080226 **Manufacturing Date: 11DEC2025**

TEST	SPECIFICATIONS	RESULTS
Cell Morphology[1] 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Refractile and motile with rosettes visible (Figure 1)
Genotypic Analysis[2] Sequencing of N-acetylglucosamine-1-phosphate transferase gene *(nagt)* (~ 1280 base pairs)	≥ 99% sequence identity to *L. braziliensis* var. 4 *nagt* gene (GenBank: DQ836162.1)	99.9% sequence identity to *L. braziliensis* var. 4 *nagt* gene (GenBank: DQ836162.1)[3]
Viable Cell Count by Hemacytometry[2]	> 10^6 cells per mL	3.7 × 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]*L. braziliensis* var. 4 is differentiated from *L. braziliensis* based on a 4-nucleotide difference in the *nagt* gene (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: Cell Morphology



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Certificate of Analysis for NR-61704

/Sonia Bjorum Brower/
Sonia Bjorum Brower 31 MAR 2026
Technical Manager or designee, ATCC Federal Solutions

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