

Leishmania braziliensis, Strain HOM/BR/75/M2903

Catalog No. NR-50608

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. NR-50608 was produced by inoculation of BEI Resources seed lot 70033210 into M199 supplemented with 10% HIFBS and 10 µg/mL hemin for 4 days at 25°C in an aerobic atmosphere to produce this lot.

Lot: 70061937

Manufacturing Date: 04AUG2023

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 2 days at 25°C in an aerobic atmosphere in M199 supplemented with 10% HIFBS and 10 µg/mL hemin	Report results	Ovoid-to-elongated; rosettes visible
Genotypic Analysis² Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>nagt</i>) (~ 1330 base pairs)	≥ 99% sequence identity to <i>L. braziliensis</i> var. 4 <i>nagt</i> gene (GenBank: DQ836162.1)	100% sequence identity to <i>L. braziliensis</i> var. 4 <i>nagt</i> gene (GenBank: DQ836162.1) ³
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells/mL	6 × 10 ⁸ cells/mL
Viability¹ 2 days 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 ⁴ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth

¹Testing completed on vial, post-freeze material

²Testing 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).

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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