

Genomic DNA from *Leishmania braziliensis*, Strain HOM/BR/75/M2903
Catalog No. NR-61705
Product Description:

Genomic DNA was extracted from *Leishmania braziliensis* (*L. braziliensis*), strain HOM/BR/75/M2903 was isolated in 1975 from the cutaneous lesion of a male in Para, Brazil. NR-61705 was extracted from BEI Resources NR-61704 lot 70080226 using proprietary technology. NR-61705 is provided in 10 mM Tris-HCl, 1 mM EDTA, ~ pH 7.5.

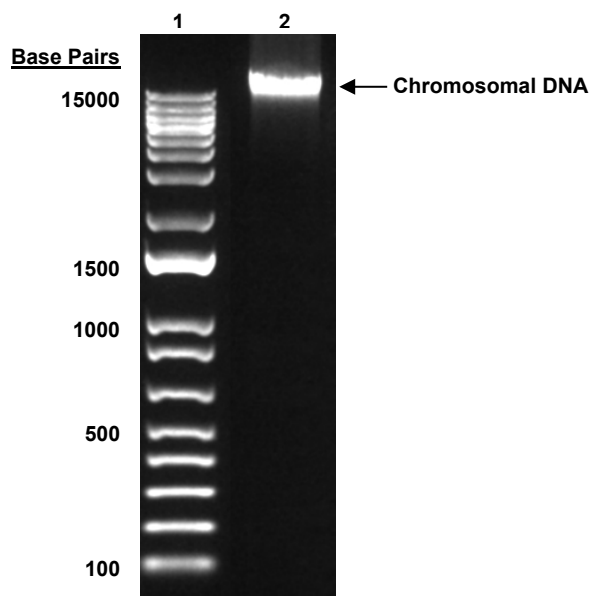
Lot: 70081081
Manufacturing Date: 24MAR2026

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.2 to 3.5 µg in 20 to 200 µL/vial	2 µg in 125 µL/vial (16 µg/mL)
Amount per Vial	0.2 to 3.5 µg	2 µg
Genotypic Analysis Sequencing of Internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene (rRNA), ITS 2 (~ 860 base pairs) Sequencing of N-acetylglucosamine-1-phosphate transferase gene (<i>nagt</i>) (~ 1280 base pairs)	≥ 99% sequence identity to <i>L. braziliensis</i> , strain HOM/BR/75/M2903 (GenBank: AOSE02000231.1) ≥ 99% sequence identity to <i>L. braziliensis</i> var. 4 <i>nagt</i> gene (GenBank: DQ836162.1)	99.6% sequence identity to <i>L. braziliensis</i> , strain HOM/BR/75/M2903 (GenBank: AOSE02000231.1) 99.9% sequence identity to <i>L. braziliensis</i> var. 4 <i>nagt</i> gene (GenBank: DQ836162.1) ¹
Functional Activity by PCR Amplification² <i>nagt</i> gene	~ 1400 base pair amplicon	~ 1400 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.9
Protozoan Inactivation 10% of total DNA yield inoculated in M199 medium supplemented with 10% heat-inactivated fetal bovine serum and 10 µg/mL hemin for 14 days at 25°C in an aerobic atmosphere	No viable organisms detected	No viable organisms detected

¹*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.).

²Primer sequences and conditions for PCR are available upon request.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: ~ 200 ng of NR-61705

/Sonia Bjorum Brower/

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22 SEP 2026

Technical Manager or designee, ATCC Federal Solutions

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