b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-42489

Leishmania major, Strain NIH SD (MHOM/SN/74/SD), Δ*gp63 1-7*

Catalog No. NR-42489

Product Description: *Leishmania major (L. major)*, strain NIH SD (MHOM/SN/74/SD) Δ*gp63 1-7* is a deletion mutant of the wild-type strain NIH SD (MHOM/SN/74/SD) created by the targeted deletion of the seven tandemly-linked genes comprising the leishmanolysin (*gp63*) gene complex.

Lot[1]: 61775804 **Manufacturing Date: 23MAY2013**

TEST	SPECIFICATIONS	RESULTS
Genotyping		
Sequencing of 18S ribosomal RNA gene and internal transcribed spacer (ITS) 1 (~ 1540 base pairs)	Consistent with *L. major*	Consistent with *L. major*[2]
Sequencing of ITS 1, 5.8S ribosomal RNA gene, ITS 2 (~ 670 base pairs)	Consistent with *L. major*	Consistent with *L. major*
Functional Activity by PCR Amplification		
18S ribosomal RNA gene	~ 2500 base pair amplicon	~ 2500 base pair amplicon
ITS 1, 5.8S ribosomal RNA gene, ITS 2	~ 1200 base pair amplicon	~ 1200 base pair amplicon
Presence/Absence of Genes Confirmed by PCR Amplification		
Leishmanolysin gene 1 (*gp63-1*) NR-42489	No amplicons	No amplicons
Leishmanolysin gene 1 (*gp63-1*) positive control	~ 320 base pair amplicon	~ 320 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10^6 cells/mL	7.8 x 10^7 cells/mL
Viability (post-freeze)[3]	Growth	Growth
Sterility (21-day incubation)		
Harpo's HTYE broth[4], 37°C and 26°C, aerobic	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
Brain heart infusion, 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]NR-42489 was produced by cultivation of the deposited. After several low growth passages, the culture was propagated in Modified M199 medium supplemented with hemin for 2 days at 25°C in an aerobic atmosphere to produce this lot.
[2]Also consistent with other *Leishmania* species
[3]Viable cells were observed after 1 day under cultivation conditions.
[3]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 16 MAY 2014 **Signature:**

Title: Technical Manager, BEI Authentication or designee

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