

***Leishmania major*, Strain NIH SD (MHOM/SN/74/SD),  $\Delta gp63$  1-7 + *gp63-1***

**Catalog No. NR-42490**

**Product Description:** *Leishmania major* (*L. major*), strain NIH SD (MHOM/SN/74/SD)  $\Delta gp63$  1-7 + *gp63-1* is a mutant of the wild-type strain NIH SD (MHOM/SN/74/SD) created by the targeted deletion of the leishmanolysin (*gp63*) gene complex followed by transfection with plasmid pLEXNeo-*gp63-1* containing the *gp63-1* gene. Complementation mutants were selected from G418-resistant promastigotes and are reported to be resistant to hygromycin B, nourseothricin and neomycin.

**Lot<sup>1</sup>: 61695012**

**Manufacturing Date: 10APR2013**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of 18S ribosomal RNA gene and internal transcribed spacer (ITS) 1 (~ 1510 base pairs) Sequencing of ITS 1, 5.8S ribosomal RNA gene, ITS 2 (~ 660 base pairs)	Consistent with <i>L. major</i> Consistent with <i>L. major</i>	Consistent with <i>L. major</i> <sup>2</sup> Consistent with <i>L. major</i>
<b>Functional Activity by PCR Amplification</b> 18S ribosomal RNA gene ITS 1, 5.8S ribosomal RNA gene, ITS 2	~ 2500 base pair amplicon ~ 1200 base pair amplicon	~ 2500 base pair amplicon ~ 1200 base pair amplicon
<b>Presence/Absence of Genes Confirmed by PCR Amplification</b> Leishmanolysin gene 1 ( <i>gp63-1</i> ) NR-42490 Leishmanolysin gene 1 ( <i>gp63-1</i> ) negative control	~ 320 base pair amplicon No amplicons	~ 320 base pair amplicon No amplicons
<b>Viable Cell Count by Hemacytometry (pre-freeze)</b>	> 10 <sup>6</sup> cells/mL	7.8 x 10 <sup>7</sup> cells/mL
<b>Viability (post-freeze)<sup>3</sup></b>	Growth	Growth
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>4</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 37°C and 26°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

<sup>1</sup>NR-42490 was produced by cultivation of the deposited. After several low growth passages, the culture was propagated in Modified M199 medium supplemented with hemin for 5 days at 25°C in an aerobic atmosphere to produce this lot.

<sup>2</sup>Also consistent with other *Leishmania* species

<sup>3</sup>Viable cells were observed after 3 day under cultivation conditions.

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

**Date:** 19 MAY 2014

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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