

***Biomphalaria glabrata*, Myoglobin (Mb) Gene Reverse Primer**

**Catalog No. NR-41371**

This reagent is the tangible property of the U.S. Government.

**Product Description:** NR-41371 contains a twenty-four nucleotide reverse primer designed to amplify the myoglobin (Mb) gene from *Biomphalaria glabrata* (*B. glabrata*) when paired with the Mb forward primer (NR-41335). The sequence of the Mb reverse 24-mer is 5'-TGTTGCAGAGGTCCGAAGAACTCG-3'.

**Lot<sup>1</sup>: 61500642**

**Manufacturing Date: 17MAY2012**

TEST	SPECIFICATIONS	RESULTS
<b>PCR Assay of Extracted Nucleic Acid<sup>2,3</sup></b> <i>Biomphalaria glabrata</i> <i>Schistosoma mansoni</i>	~ 190 base pair amplicon No amplicons	~ 190 base pair amplicon (Figure 1) No amplicons
<b>Primer Characteristics<sup>1</sup></b> Molecular weight Primer melting temperature (Tm) GC content Primer concentration Moles of primer Micrograms of primer	Report results Report results Report results Report results Report results Report results	7418 g/mol 66.3°C 54.2% 100 µM 3.0 nmoles per vial 22.3 µg per vial
<b>Gene Stability by Quantitative Real-Time PCR</b>	Report results	No statistical significant difference in threshold cycle (Ct) <sup>4,5</sup>

<sup>1</sup>NR-41371 lot: 61500642 was manufactured by Eurofins MWG Operon. Primer characteristics were determined by the manufacturer. The bulk material was thawed and aliquoted at ATCC®.

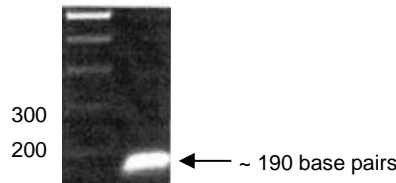
<sup>2</sup>PCR completed by the Biomedical Research Institute prior to vialing.

<sup>3</sup>Position 108 to 296 of GenBank: AY314976

<sup>4</sup>20 individual snails were utilized for RT-PCR amplification

<sup>5</sup>ANOVA test (P value = 0.01)

**Figure 1: PCR Amplification of *B. glabrata* Mb using NR-41335 and NR-41371**



**Date:** 29 AUG 2013

**Signature:**

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

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