

***Biomphalaria glabrata*, Alpha-Tubulin Gene Reverse Primer**

Catalog No. NR-41373

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

Product Description: NR-41373 contains an eighteen nucleotide reverse primer designed to amplify the alpha-tubulin gene from *Biomphalaria glabrata* (*B. glabrata*) when paired with the alpha-tubulin forward primer (NR-41337). The sequence of the alpha-tubulin reverse 18-mer is 5'-GGGGGAGGCTGGGCTGGT-3'.

Lot¹: 61568078

Manufacturing Date: 17MAY2012

TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted Nucleic Acid^{2,3} <i>Biomphalaria glabrata</i> <i>Schistosoma mansoni</i>	~ 120 base pair amplicon No amplicons	~ 120 base pair amplicon (Figure 1) No amplicons
Primer Characteristics¹ 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	5963 g/mol 69.0°C 77.8% 100 µM 3.0 nmoles per vial 17.1 µg per vial
Gene Stability by Quantitative Real-Time PCR	Report results	No statistical significant difference in threshold cycle (Ct) ^{4,5}

¹NR-41373 lot: 61568078 was manufactured by Eurofins MWG Operon. Primer characteristics were determined by the manufacturer. The bulk material was thawed and aliquoted at ATCC®.

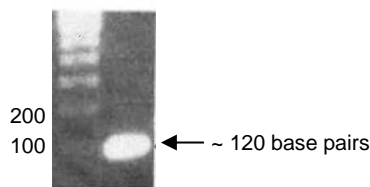
²PCR completed by the Biomedical Research Institute prior to vialing.

³Position 14 to 131 of GenBank: FC857565.1

⁴20 individual snails were utilized for RT-PCR amplification

⁵ANOVA test (P value = 0.01)

Figure 1: PCR Amplification of *B. glabrata* Alpha-Tubulin using NR-41337 and NR-41373



Date: 29 AUG 2013

Signature:

Title:

Technical Manager, BEI Authentication or designee

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