

***Biomphalaria glabrata*, Beta-Tubulin Gene Forward Primer**

Catalog No. NR-41338

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Product Description: NR-41338 contains a twenty nucleotide forward primer designed to amplify the beta-tubulin gene from *Biomphalaria glabrata* (*B. glabrata*) when paired with the beta-tubulin reverse primer (NR-41374). The sequence of the beta-tubulin forward 20-mer is 5'-GGTGGCGGCACTGGATCTGG-3'.

Lot¹: 61433132

Manufacturing Date: 17MAY2012

TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted Nucleic Acid^{2,3} <i>Biomphalaria glabrata</i> <i>Schistosoma mansoni</i>	~ 375 base pair amplicon No amplicons	~ 375 base pair amplicon (Figure 1) No amplicons
Primer Characteristics¹ Molecular weight Primer melting temperature (T _m) GC content Primer concentration Moles of primer Micrograms of primer	Report results Report results Report results Report results Report results Report results	6230 g/mol 68.6°C 70.0% 100 µM 3.0 nmoles per vial 18.7 µg per vial
Gene Stability by Quantitative Real-Time PCR	Report results	No statistical significant difference in threshold cycle (C _t) ^{4,5}

¹NR-41338 lot: 61433132 was manufactured by Eurofins MWG Operon. Primer characteristics were determined by the manufacturer. The bulk material was thawed and aliquoted at ATCC®.

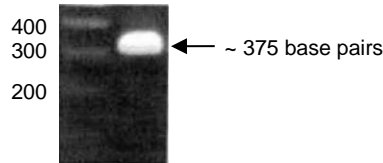
²PCR completed by the Biomedical Research Institute prior to vialing.

³Position 126 to 498 of GenBank: CV548160.1

⁴20 individual snails were utilized for RT-PCR amplification

⁵ANOVA test (P value = 0.01)

Figure 1: PCR Amplification of *B. glabrata* Beta-Tubulin using NR-41338 and NR-41374



Date: 29 AUG 2013

Signature:

Title: Technical Manager, BEI Authentication or designee

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