

Schistosoma mansoni, Myoglobin (Mb) Gene Reverse Primer

Catalog No. NR-41362

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Product Description: NR-41362 contains a twenty-three nucleotide reverse primer designed to amplify the myoglobin (Mb) gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the Mb forward primer (NR-41326). The sequence of the Mb reverse 23-mer is 5'-TCATCGGCAAAAGAGCCGAAACA-3'.

Lot¹: 61500165

Manufacturing Date: 17MAY2012

TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted Nucleic Acid^{2,3,4} Amplicon size	~ 190 base pair amplicon	~ 190 base pair amplicon (Figure 1)
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	7060 g/mol 62.8°C 47.8% 100 µM 3.0 nmoles per vial 21.2 µg per vial
Gene Stability by Quantitative Real-Time PCR	Report results	No statistical significant difference in threshold cycle (Ct) ^{5,6}

¹NR-41362 lot: 61500165 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.

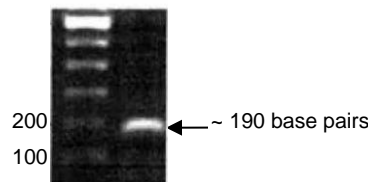
³Position 51 to 238 of GenBank: XM002578586

⁴This test showed no cross amplification in mice

⁵20 individual snails were utilized for RT-PCR amplification

⁶ANOVA test (P value = 0.01)

Figure 1: PCR Amplification of *S. mansoni* Mb Gene using NR-41326 and NR-41362



Date: 17 SEP 2013

Signature:

Title:

Technical Manager, BEI Authentication or designee

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