

Schistosoma mansoni, Elongation Factor 1 (EF-1) Gene Forward Primer

Catalog No. NR-41323

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Product Description: NR-41323 contains a twenty nucleotide forward primer designed to amplify the elongation factor 1 (EF-1) gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the EF-1 reverse primer (NR-41359). The sequence of the EF-1 forward 20-mer is 5'-TGCACCTGGGCATCGTGACT-3'.

Lot¹: 61433114

Manufacturing Date: 17MAY2012

TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted Nucleic Acid^{2,3,4} Amplicon size	~ 325 base pair amplicon	~ 325 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	6109 g/mol 64.5°C 60.0% 100 µM 3.0 nmoles per vial 18.3 µg per vial
Gene Stability by Quantitative Real-Time PCR	Report results	No statistical significant difference in threshold cycle (Ct) ^{5,6}

¹NR-41323 lot: 61433114 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.

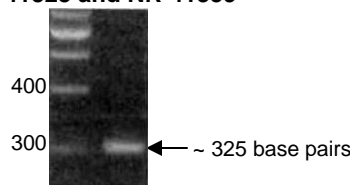
³Position 273 to 594 of GenBank: XM002580751

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* EF-1 Gene using NR-41323 and NR-41359



Date: 16 SEP 2013

Signature:

Title:

Technical Manager, BEI Authentication or designee

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