

Schistosoma mansoni, 18S Ribosomal RNA Gene Forward Primer

Catalog No. NR-41328

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

Product Description: NR-41328 contains a twenty-one nucleotide forward primer designed to amplify the 18S ribosomal RNA gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the 18S ribosomal RNA reverse primer (NR-41364). The sequence of the 18S ribosomal RNA forward 21-mer is 5'-CGGTGAAACCGCGAATGGCTC-3'.

Lot¹: 61433121

Manufacturing Date: 17MAY2012

TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted Nucleic Acid^{2,3,4} Amplicon size	~ 160 base pair amplicon	~ 160 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	6456 g/mol 66.5°C 61.9% 100 µM 3.0 nmoles per vial 19.4 µg per vial
Gene Stability by Quantitative Real-Time PCR	Report results	No statistical significant difference in threshold cycle (Ct) ^{5,6}

¹NR-41328 lot: 61433121 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.

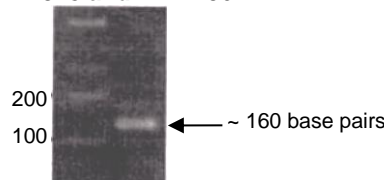
³Position 78 to 273 of GenBank: U65657.1

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* 18S Ribosomal RNA Gene using NR-41328 and NR-41364



Date: 17 SEP 2013

Signature

Title: Technical Manager, BEI Authentication or designee

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