

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-41374**

# *Biomphalaria glabrata,* Beta-Tubulin Gene Reverse Primer

# Catalog No. NR-41374

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

# For research use only. Not for human use.

## Contributor:

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#### Manufacturer:

Eurofins MWG Operon

## **Product Description:**

NR-41374 contains a twenty nucleotide reverse primer designed to amplify the beta-tubulin gene from *Biomphalaria glabrata* (*B. glabrata*) when paired with the beta-tubulin forward primer (NR-41338). The sequence of the beta-tubulin reverse 20-mer is 5'-GGAGACGGGGAAGGGGACC-3'. Please see Appendix I for general PCR procedure details.

#### **Material Provided:**

Each vial contains approximately 30  $\mu L$  of forward primer in TE buffer (100 mM Tris-HCl, 0.5 M EDTA, pH 7.5). The concentration is shown on the Certificate of Analysis.

## Packaging/Storage:

Primers were packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder upon arrival. Freeze-thaw cycles should be minimized.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Biomphalaria glabrata, Beta-Tubulin Gene Reverse Primer, NR-41374."

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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# **Product Information Sheet for NR-41374**

# **APPENDIX I**

# B. glabrata Beta-Tubulin Primers

**Recommended Reagents/Equipment** 

Recommended Reagents/Equipment				
Reagent	Source	Catalog #		
B. glabrata beta-tubulin primers (forward and reverse)	BEI Resources	NR-41338 and NR-41374		
Genomic DNA from B. glabrata <sup>1</sup>	BEI Resources	NR-29375 to NR-29377		
10X PCR Buffer	No Manufacturer Recommended	N/A		
Taq <sup>®</sup> Polymerase	No Manufacturer Recommended	N/A		
dNTP Mix	No Manufacturer Recommended	N/A		
Molecular Biology Grade Water	No Manufacturer Recommended	N/A		

<sup>&</sup>lt;sup>1</sup>Primers can also be used with other *B. glabrata* nucleic acids.

## Reaction Mix<sup>1</sup>

TCUOTION MIX				
Reagent	Stock Concentration	Volume per Reaction (μL)		
Molecular Biology Grade Water		16.5		
10X PCR Buffer	10X	2.5		
dNTP Mix	5 mM each	1		
Taq <sup>®</sup> Polymerase	5 Units per μL	1		
Forward and Reverse Primers <sup>2</sup>	10 μM (each primer)	1		
Template DNA	25 ng per μL	2		
		Total – 25 µL		

<sup>&</sup>lt;sup>1</sup>Reaction mix should be kept on bench-top cooler until ready for use.

# **Cycling Protocol**

Cycle	# of Repeats	Step	Conditions	
1	1	1	94°C for 15 minutes	
2	10	1	94°C for 30 seconds	
		2	68°C for 90 seconds (decrease temperature 1°C per cycle)	
3	20	1	94°C for 30 seconds	
		2	58°C for 90 seconds	
4	1	1	72°C for 60 seconds	
5	1	1	60°C for 30 minutes	

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 $<sup>^2</sup>$ Primers are supplied at a concentration of 100  $\mu$ M and need to be diluted to the working stock concentrations.