

Escherichia coli Virulence Target *esth* Primers

Catalog No. NR-12203

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

Product Description: NR-12203 contains forward and reverse primers that specifically amplify a region of the virulence target heat stable enterotoxin (isolated from humans), *esth*, found on plasmid pCS1 of enterotoxigenic *Escherichia coli* (*E. coli*; ETEC). Note: *E. coli* 12-Target Multiplex PCR 10X Buffer (BEI Resources NR-13440) will be provided with your shipment of NR-12203.

Lot: 58459948

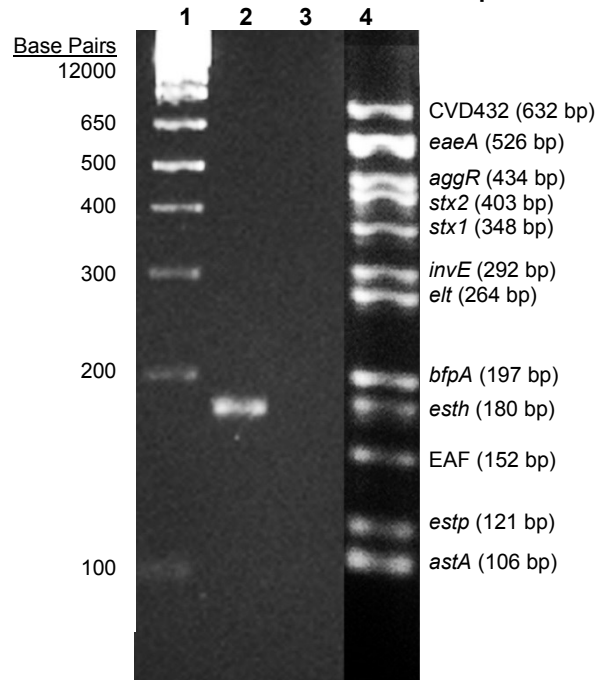
Manufacturing Date: 14OCT2008

TEST	SPECIFICATIONS	RESULTS
PCR Amplification and Sequencing^{1,2} Amplicon size NCBI blast of sequence	Expected size Expected sequence	~ 180 bp (Figure 1) <i>esth</i>
Specificity	Specific for <i>esth</i>	Specific for <i>esth</i>
Concentration of Each Primer	Report results	10 µM

¹Genomic DNA from ETEC, strain H10407 (BEI Resources NR-2647) was used as template.

²The primers are described in Kimata, K., et al. "Rapid Categorization of Pathogenic *Escherichia coli* by Multiplex PCR." *Microbiol. Immunol.* 49 (2005): 485-492. PubMed: 15965295.

Figure 1: PCR Amplification of Virulence Target *esth* using NR-12203 Primers and NR-2647 Template DNA



Lane 1: Invitrogen™ 1Kb Plus DNA Ladder™

Lane 2: Amplicon (NR-12203 primers and NR-2647 template DNA)

Lane 3: Negative control (NR-12203 primers without NR-2647 template DNA)
Lane 4: Virulence Target Ladder (BEI Resources NR-12150)

Date: 30 APR 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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