

Escherichia coli Virulence Target EAF Primers

Catalog No. NR-12204

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

Product Description: NR-12204 contains forward and reverse primers that specifically amplify a region of the virulence target EAF, EPEC adherence factor, found on the plasmid pEAF of enteropathogenic *Escherichia coli* (*E. coli*; EPEC). Note: *E. coli* 12-Target Multiplex PCR 10X Buffer (BEI Resources NR-13440) will be provided with your shipment of NR-12204.

Lot: 58459949

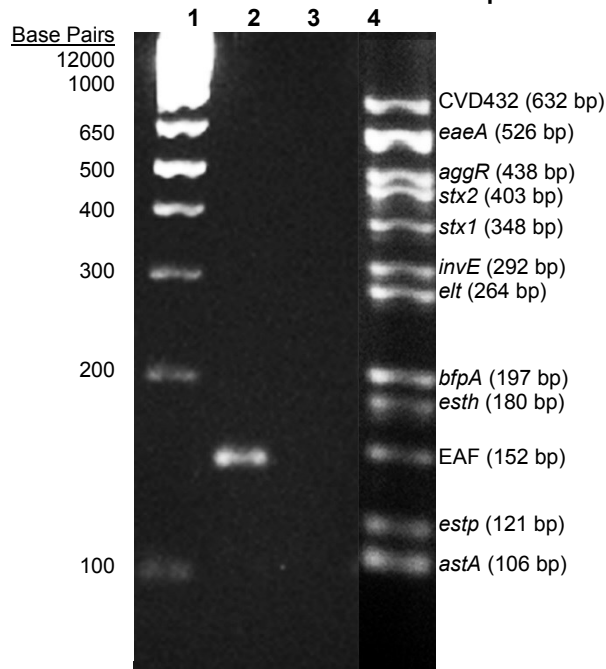
Manufacturing Date: 14OCT2008

TEST	SPECIFICATIONS	RESULTS
PCR Amplification and Sequencing^{1,2} Amplicon size NCBI blast of sequence	Expected size Expected sequence	~ 152 bp (Figure 1) EAF
Specificity	Specific for EAF	Specific for EAF
Concentration of Each Primer	Report results	10 µM

¹Genomic DNA from atypical EPEC, strain CDC (ATCC® 12807™) (BEI Resources NR-3050) 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 EAF using NR-12204 Primers and NR-3050 Template DNA



Lane 1: Invitrogen™ 1Kb Plus DNA Ladder™

Lane 2: Amplicon (NR-12204 primers and NR-3050 template DNA)

Lane 3: Negative control (NR-12204 primers without NR-3050 template DNA)

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P.O. Box 4137
Manassas, VA 20108-4137 USA
www.beiresources.org

800-359-7370

Fax: 703-365-2898

E-mail: contact@beiresources.org

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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