

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-12150

Diarrheagenic *Escherichia coli* Virulence Target Ladder

Catalog No. NR-12150

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

For research use only. Not for human use.

Contributor and Manufacturer:

BEI Resources

Product Description:

Diarrheagenic Escherichia coli (E. coli) are classified into several pathogenic groups based on their virulence characteristics. NR-12150 is a DNA ladder that can be used for identification of 12 E. coli virulence markers (sizes range from approximately 100 bp to 650 bp) and determination of the diarrheagenic pathotype.1 The ladder includes PCR amplicons containing regions of CVD432, eaeA, aggR, stx2, stx1, invE, elt, bfpA, esth, EAF, estp, and astA virulence markers that are found on the chromosome or on the enteropathogenic. enterohemorrhagic, plasmids of enterotoxigenic, enteroinvasive and enteroaggregative E. coli (EHEC, EPEC, ETEC, EIEC and EAggEC, respectively). The nucleotide sequence of each PCR amplicon has been shown to be consistent with the corresponding target gene.

Material Provided:

Each vial contains approximately 30 μL of ladder in TE buffer (pH 7.0).

Packaging/Storage:

The ladder was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder upon arrival. Freezethaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Diarrheagenic *Escherichia coli* Virulence Target Ladder, NR-12150."

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 http://www.cdc.gov/biosafety/publications/bmbl5/BMBL.pdf.

Disclaimers:

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References:

 Kimata, K., et al. "Rapid Categorization of Pathogenic Escherichia coli by Multiplex PCR." <u>Microbiol. Immunol.</u> 49 (2005): 485-492. PubMed: 15965295.

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