

Diarrhegenic *Escherichia coli* Nucleic Acid Panel

Catalog No. NR-9546

For research use only. Not for human use.

Contributor:

ATCC®

Product Description:

NR-9546 consists of nucleic acids from five organisms representing different diarrhegenic *Escherichia coli* (*E. coli*) pathotypes (Table 1). The indicated pathotypes have been confirmed by PCR amplification of pathogenic sequences from the nucleic acid. All five nucleic acids have been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA gene.

Each nucleic acid is available individually by requesting the indicated BEI Resources NR number.

A companion panel containing the five organisms is available as BEI Resources NR-9545 (Diarrhegenic *Escherichia coli* Organism Panel). A brief description of each organism may be found on the Product Information Sheet for NR-9545, which is available on the BEI Resources website.

Material Provided:

Each vial contains 4–6 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~7.4). The concentrations are shown on the Certificate of Analysis. The vials should be centrifuged prior to opening.

Packaging/Storage:

NR-9546 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 immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Diarrhegenic *Escherichia coli* Nucleic Acid Panel, NR-9546.”

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

Disclaimers:

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Table 1

BEI Resources	Strain	Serotype	Pathotype	Marker(s) Confirmed
NR-2647	H10407	O78:H11	ETEC	<i>elt</i> on pJY11; <i>esth</i> and <i>estp</i> on pCS1 <i>astA</i> on chromosome
NR-2648	EDL 933	O157:H7	EHEC	<i>hlyA</i> on pO157 <i>eaeA</i> , <i>stx1</i> and <i>stx2</i> on chromosome
NR-3050	CDC	O126:K71(B16):H	Atypical EPEC	EAF and <i>bfpA</i> on pEAF
NR-3051	1885-77 (EDL 1282)	O29:NM	EIEC	<i>invE</i> on pINV
NR-3052	NCDC U14-41	O3:K2a,2b(L):H2	EAEC	CVD432 and <i>aggR</i> on pAA