

Product Information Sheet for NR-7

Escherichia coli, Strain EDL932

Catalog No. NR-7

(Derived from ATCC® 43894™)

For research use only. Not for human use.

Contributor:

ATCC[®]

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterobacteriaceae, Escherichia

Species: Escherichia coli

Strain: EDL932 Serotype: O157:H7

Original Source: Escherichia coli (E. coli), strain EDL932 was isolated from human feces from an outbreak of hemorrhagic colitis in Michigan in 1982.

Comment: E. coli, strain EDL932 was deposited at ATCC® in 1988 by the Enteric Bacteriology Section, Centers for Disease Control, Atlanta, Georgia.

E. coli is a Gram-negative rod-shaped bacterium which occurs singly or in pairs. It is a major facultative inhabitant of the large intestine.

E. coli, strain EDL932 and many other enterohemorrhagic *E. coli* (EHEC) strains release potent toxins, similar to those of *Shigella dysenteriae*, which can cause severe intestinal, kidney and central nervous system disease. *E. coli*, strain EDL932 carries virulence-associated genes located on both the chromosome and plasmid of the organism.

The presence of the plasmid pO157 and chromosomal virulence markers stx1, stx2 and eaeA has been confirmed by PCR amplification of extracted DNA.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-7 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

Tryptic Soy broth or equivalent

Tryptic Soy agar or equivalent

Incubation:

Temperature: 37°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 2. Transfer the entire thawed aliquot into a single tube of broth
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tubes and plate at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Escherichia coli*, Strain EDL932, NR-7."

Biosafety Level: 2

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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References:

- Wells J. G., et al. "Laboratory Investigation of Hemorrhagic Colitis Outbreaks Associated with a Rare Escherichia coli Serotype." <u>J Clin Microbiol</u>. 18 (1983): 512-520. PubMed: 6355145.
- Junkins, A. D., M. P. Doyle. "Demonstration of Exopolysaccharide Production by Enterohemorrhagic Escherichia coli." <u>Curr. Microbiol.</u> 25 (1992): 9-17. PubMed: 1369498.
- Beutin, L., et al. "Close Association of Verotoxin (Shiga-Like Toxin) Production with Enterohemolysin Production in Strains of *Escherichia coli*." <u>J. Clin. Microbiol.</u> 27 (1989): 2559-2564. PubMed: 2681256.

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