

# **Product Information Sheet for NR-8**

# Escherichia coli, Strain A

Catalog No. NR-8

(Derived from ATCC® 51657™)

# For research use only. Not for human use.

#### Contributor:

ATCC®

#### Manufacturer:

**BEI Resources** 

#### **Product Description:**

Bacteria Classification: Enterobacteriaceae, Escherichia

Species: Escherichia coli

Strain: A

Serotype: O157:H7

Original Source: Escherichia coli (E. coli) strain A was isolated from human clinical specimen in Washington

<u>Comment</u>: *E. coli*, strain A is reported to be resistant to streptomycin, sulfisoxazole and tetracycline.<sup>1</sup>

*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 A 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 A 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 have 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-8 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.

- 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 A, NR-8."

## 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:

- Kim, H. H., et al. "Characteristics of Antibiotic-Resistant Escherichia coli O157:H7 in Washington State, 1984-1991." J. Infect. Dis. 170 (1994): 1606-1609. PubMed: 7996005.
- Lekkas, C., et al. "Survival of Escherichia coli O157:H7 in Galotyri Cheese Stored at 4 and 12°C." Food Microbiol. 23 (2006): 268-276. PubMed: 16943013.

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