

***Escherichia coli*, Strain E 10**

**Catalog No. NR-103**

(Derived from ATCC® 23537™)

**For research only. Not for human use.**

**Contributor:**

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**Product Description:**

Bacteria Classification: *Enterobacteriaceae*, *Escherichia*

Species: *Escherichia coli*

Strain: E 10 (NCTC 9077)

Serotype: O77:K96:NM

Original Source: Isolated from human tissue (peritonitis)

Comment: *Escherichia coli*, strain E 10 was deposited at ATCC® in 1967 by Dr. William H. Ewing, Bacteriology Section, National Communicable Disease Center, Atlanta, Georgia.

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

**Material Provided:**

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

Note: If homogeneity is required for your intended use, please colony-purify prior to initiating work.

**Packaging/Storage:**

NR-103 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 Tryptic Soy Broth.
3. Use several drops of the suspension to inoculate a Tryptic Soy 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Escherichia coli*, Strain E 10, NR-103.”

**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, 2007; see [www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm).

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**References:**

1. Orskov, I., et al. “Serology, Chemistry, and Genetics of O and K Antigens of *Escherichia coli*.” Bacteriol. Rev. 41 (1977): 667–710. PubMed: 334154.

2. Orskov, I. and F. Orskov. "Five New *Escherichia coli* K Antigens, K95, K96, K97, K98 and K100." Acta Pathol. Microbiol. Scand. [B] 84B (1976): 321–325. PubMed: 63221.
3. Jann, B., H. Kochanowski, and K. Jann. "Structure of the Capsular K96 Polysaccharide (K96 Antigen) from *Escherichia coli* O77:K96:H- and Comparison with the Capsular K54 Polysaccharide (K54 Antigen) from *Escherichia coli* O6:K54:H10." Carbohydr. Res. 253 (1994): 323–327. PubMed: 8156556.

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