**Product Information Sheet for NR-5**

**Escherichia coli, Strain E2539C1**

**Catalog No. NR-5**  
(Derived from ATCC® 43886™)

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

**Contributor:**  
ATCC®

**Manufacturer:**  
BEI Resources

**Product Description:**

**Bacteria Classification:** Enterobacteriaceae, Escherichia  
**Species:** Escherichia coli  
**Strain:** E2539C1  
**Serotype:** O25:K98:NM  
**Original Source:** Isolated from human feces from a shipboard outbreak of diarrheal illness in 1976  
**Comment:** Escherichia coli, strain E2539C1 was deposited at ATCC® in 1988 by Dr. Nancy A. Stockbine, The Enteric Bacteriology Section, Centers for Disease Control, Atlanta, Georgia.

*Escherichia coli* (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 E2539C1 is known to produce heat-labile toxin (LT) which is found in most enteroaggregative *E. coli* (ETEC) strains. The E2539C1 strain is resistant to tetracycline and sulfadiazole.  

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 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-5 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 slant and/or 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 E2539C1, NR-5."

**Biosafety Level:** 2


**Disclaimers:**

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References:

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