**Escherichia coli, Strain RDEC-1**

**Catalog No. NR-104**  
(Derived from ATCC® 49106™)

For research only. Not for human use.

**Contributor:**  
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**Product Description:**

*Bacteria Classification:* Enterobacteriaceae, Escherichia  
*Species:* Escherichia coli  
*Strain:* RDEC-1  
*Serotype:* O15

**Original Source:** Isolated from rabbits with diarrhea, 1976

**Comment:** Escherichia coli (E. coli), strain RDEC-1 was deposited at ATCC® in 1988 by J. Robert Cantey, M.D., Veterans Administration Medical Center, Charleston, South Carolina.

E. coli is a Gram-negative, rod-shaped bacterium which occurs singly or in pairs. E. coli, RDEC-1 is an attaching and effacing strain that causes diarrhea in post weanling rabbits. RDEC-1 has been used as an animal model of human enteropathogenic *E. coli* (EPEC) diarrhea.

**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-104 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 RDEC-1, NR-104.”

**Biosafety Level:** 2


**Disclaimers:**

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