

***Escherichia coli*, Strain 4.0967**

**Catalog No. NR-17633**

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

**Contributor:**

C. DebRoy, Ph.D., Director, *E. coli* Reference Center, Department of Veterinary and Biomedical Sciences, College of Agricultural Sciences, The Pennsylvania State University, University Park, Pennsylvania, USA

**Manufacturer:**

BEI Resources

**Product Description:**

**Bacteria Classification:** *Enterobacteriaceae*, *Escherichia*

**Species:** *Escherichia coli*

**Strain:** 4.0967

**Serotype:** O145:H2

**Original Source:** *Escherichia coli* (*E. coli*), strain 4.0967, serotype O145:H2, is a Shiga toxin-producing *E. coli* that was isolated from rabbit.<sup>1,2</sup>

**Comment:** *E. coli*, strain 4.0967 was selected to undergo complete genome sequencing at the [J. Craig Venter Institute](http://www.jcvi.org/).

*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.

Strain 4.0967 is referred to as a Shiga toxin-producing *E. coli* (STEC) strain. The *E. coli*, strain 4.0967 genome encodes for Shiga-like type II toxin (Stx2) but not for Shiga-like type I toxin (Stx1).<sup>1</sup>

**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 purify prior to initiating work.

**Packaging/Storage:**

NR-17633 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 with 5% defibrinated sheep blood 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 tube, 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 4.0967, NR-17633."

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Kapur, V., et al. "Genome Sequencing and Analysis of Pathogenic *Escherichia coli* Strains." [J. Craig Venter Institute](#). (2009) <[http://gcid.jcvi.org/docs/STEC\\_White\\_Paper.pdf](http://gcid.jcvi.org/docs/STEC_White_Paper.pdf)>
2. DebRoy, C., Personal Communication.

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