

Escherichia coli, Strain 87-1713

Catalog No. NR-17652

For research only. Not for human use.

Contributor:

C. DebRoy, 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: 87-1713 **Note: The label refers to this item as strain 87-1713 (10i). The (10i) is a lab designation that was used for tracking and is not part of the strain name.**

Serotype: O145:H6¹

Original Source: *Escherichia coli* (*E. coli*), strain 87-1713 is a human isolate from Canada, 1987.¹

Comment: *E. coli*, strain 87-1713 was selected to undergo complete genome sequencing at the [J. Craig Venter Institute](#).

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 87-1713 has been typed as an enterohemorrhagic *E. coli* (EHEC) strain.¹ Many EHEC strains encode potent toxins, similar to those of *Shigella dysenteriae*, which can cause severe intestinal, kidney, and central nervous system disease.

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-17652 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 87-1713, NR-17652."

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:

1. Reid, S. D., D. J. Betting and T. S. Whittam. "Molecular Detection and Identification of Intimin Alleles in Pathogenic *Escherichia coli* by Multiplex PCR." J. Clin. Microbiol. 37 (1999): 2719-2722. PubMed: 10405431.
2. 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>

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