

***Escherichia coli*, Strain 94-G7771**

Catalog No. NR-9

(Derived from ATCC® 700375™)

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Contributor:

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Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Escherichia*

Species: *Escherichia coli*

Strain: 94-G7771

Serotype: O157:NM

Original Source: Isolated in 1994 from human feces

Comment: *Escherichia coli* (*E. coli*), strain 94-G7771 was deposited at ATCC® in 1997 by Dr. Evangeline G. Sowers, Diarrheal Diseases Laboratory Section, Centers for Disease Control and Prevention, Atlanta, Georgia.

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, 94-G7771 was deposited as a nonmotile¹ isolate of *E. coli* O157 that does not produce Shiga toxin 1 or 2 and that has the *fliC* restriction pattern² that is present in O157:H7 and O157:NM strains.

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-9 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Escherichia coli*, Strain 94-G7771, NR-9."

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.

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References:

1. Murinda, S. E., et al. "Novel Single-Tube Agar-Based Test System for Motility Enhancement and Immunocapture of *Escherichia coli* O157:H7 by H7 Flagellar Antigen-Specific Antibodies." *J. Clin. Microbiol.* 40 (2002): 4685–4690. PubMed: 12454173.
2. Fields, P. I., et al. "Molecular Characterization of the Gene Encoding H Antigen in *Escherichia coli* and Development of a PCR-Restriction Fragment Length Polymorphism Test for Identification of *E. coli* O157:H7 and O157:NM." *J. Clin. Microbiol.* 35 (1997): 1066–1070. PubMed: 9114382.

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