Product Information Sheet for NR-9298

Escherichia coli, Strain 101-1

Catalog No. NR-9298

For research only. Not for human use.

Contributor:
James B. Kaper, Center for Vaccine Development, Department of Microbiology and Immunology, University of Maryland, School of Medicine, Baltimore, Maryland.

Product Description:
Bacteria Classification: *Enterobacteriaceae, Escherichia*
Species: *Escherichia coli*
Strain: 101-1
Original Source: *Escherichia coli* (*E. coli*), strain 101-1, was isolated from stool specimens after an outbreak of gastrointestinal illness in Japan.[1]
Comment: *E. coli*, strain 101-1 is an atypical EAEC and is not known to contain any of the previously identified virulence factors. Genome sequence information is available at *Escherichia coli 101-1 Project at TIGR*.

Enteroaggregative *E. coli* (EAEC) are Gram-negative, rod-shaped bacteria which are increasingly recognized as a cause of diarrhea in children in developing countries. Typical EAEC strains contain the AggR virulence marker and a subset of AggR-regulated genes. Atypical EAEC strains are lacking the AggR regulon but result in disease that is similar to that induced by typical EAEC isolates.[2]

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 purify prior to initiating work.

Packaging/Storage:
NR-9298 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 broth.
3. Use several drops of the suspension to inoculate an 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 101-1, NR-9298."

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. Itoh, Y., et al. "Laboratory Investigation of Enteroaggregative *Escherichia coli* O Untypeable:H10 Associated with a Massive Outbreak of Gastrointestinal Illness." J. Clin. Microbiol. 35 (1997): 2546-2550. PubMed: 9316905.
2. Kaper, J. B., J. P. Nataro and H. L. Mobley. "Pathogenic *Escherichia coli*." Nat. Rev. Microbiol. 2 (2004): 123-140. PubMed: 15040260.

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