**Product Information Sheet for NR-100**

**Escherichia coli, Strain 1885-77**

**Catalog No. NR-100**
(Derived from ATCC® 43892™)

For research only. Not for human use.

**Contributor:**
ATCC®

**Product Description:**
Bacteria Classification: Enterobacteriaceae, Escherichia
Species: Escherichia coli (E. coli)
Strain: 1885-77 (EDL 1282)
Serotype: O29:NM

**Original Source:** Isolated from human stool in 1977

**Comment:** E. coli strain 1885-77 was deposited at ATCC® in 1988 by Dr. Nancy A. Strockbine, Enteric Bacteriology Section, Centers for Disease Control and Prevention, Atlanta, Georgia.

A high-molecular-weight plasmid and a positive Serény test have been associated with enteroinvasive E. coli (EIEC) strains. EIEC strains invade and multiply within intestinal epithelial cells, resulting in a dysentery-like enteritis in humans, similar to that caused by Shigella species. EIEC pathogenesis requires the expression of genes present both on the chromosome and on a large invasiveness plasmid, pINV (220,000 bp). The plasmid shares a significant degree of DNA homology with the virulence plasmid described in Shigella species, and is structurally and functionally equivalent.

The presence of pINV has been confirmed by PCR amplification of the marker sequence invE from extracted DNA.

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

**Packaging/Storage:**
NR-100 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 1885-77, NR-100.”

**Biosafety Level:** 2

**Disclaimers:**
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org. While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals...
contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

ATCC® is a trademark of the American Type Culture Collection.