Product Information Sheet for NR-96

**Escherichia coli, Strain B2F1**

**Catalog No. NR-96**
(derived from ATCC® 51435™)

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

**Contributor:**
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**Product Description:**

**Bacteria Classification:** Enterobacteriaceae, Escherichia

**Species:** Escherichia coli

**Strain:** B2F1

**Serotype:** O91:H21

**Original Source:** Clinical human isolate (patient with hemolytic uremic syndrome) from Toronto, Canada

*Escherichia coli* (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. Many enterohemorrhagic *E. coli* (EHEC) strains encode potent toxins, similar to those of *Shigella dysenteriae*, which can cause severe intestinal, kidney and central nervous system disease.

*E. coli* B2F1 is reported to produce two Shiga-like type II toxins, contain a large hemolysin-encoding plasmid, and is referred to as an EHEC and Shiga toxin-producing *E. coli* (STEC) strain.¹⁻³

**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-96 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 B2F1, NR-96.”

**Biosafety Level:** 2


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References:

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