**Escherichia coli, Strain RIMD 0509952**

**Catalog No. NR-12**
(Derived from ATCC® BAA-460™)

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

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**Product Description:**

**Bacteria Classification:** Enterobacteriaceae, Escherichia

**Agent:** Escherichia coli (E. coli)

**Strain:** RIMD 0509952

**Serotype:** O157:H7

**Original Source:** 1 Human feces, 1996

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.

The enterohemorrhagic E. coli (EHEC) strain RIMD 0509952 was isolated from a patient during an outbreak of hemorrhagic colitis and hemolytic uremic syndrome in Sakai City, Osaka Prefecture, Japan.\(^1\) E. coli RIMD 0509952 and many other EHEC strains encode potent toxins, similar to those of Shigella dysenteriae, which can cause severe intestinal, kidney and central nervous system disease. E. coli RIMD 0509952 carries two plasmid species: 1) pO157 (92,721 bp) and 2) pOSAK1 (3,306 bp).\(^2\) Virulence-associated genes are located on both the chromosome and pO157. The complete sequence of the chromosome (5,498,450 bp; GenBank: NC_002695), pO157 (GenBank: NC_002127) and pOSAK1 (GenBank: NC_002128) from E. coli strain RIMD 0509952 have been determined.\(^3\)

**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-12 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 RIMD 0509952, NR-12.”

**Biosafety Level:** 2


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