# Product Information Sheet for NR-2654

## Escherichia coli, Strain CFT073

**Catalog No. NR-2654**

(Derived from ATCC® 700928™)

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

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**Product Description:**

**Bacteria Classification:** Enterobacteriaceae, Escherichia  
**Species:** Escherichia coli (E. coli)  
**Strain:** CFT073  
**Serotype:** O6:H1-K2  
**Original Source:** E. coli CFT073 was originally obtained from the blood of a woman with acute pyelonephritis and was deposited by Dr. G. Plunkett in 2000  
**Comment:** The complete genomic sequence of E. coli, strain CFT073 has been determined (5,231,430 bp; GenBank: AE014075).

E. coli, strain CFT073 is a uropathogenic (UPEC) rod-shaped facultative anaerobe. It is one of the most common causes of non-hospital-acquired urinary tract infections. The uropathogenic E. coli differ from the diarrheal pathogens because they can behave as harmless human intestinal inhabitants or they can be serious pathogens when they enter the urinary tract and bloodstream. They have fimbrial operons as well as other virulence factors that allow colonization of the urinary tract.

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

**Packaging/Storage:**

NR-2654 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:**
Trypticase Soy Broth or equivalent  
Trypticase Soy Agar or equivalent  

**Incubation:**
**Temperature:** 37°C  
**Atmosphere:** Aerobic  
**Propogation:**
1. Keep vial frozen until ready for use; then thaw.  
2. Transfer the entire thawed aliquot into a single tube of Trypticase Soy Broth.

3. Use several drops of the suspension to inoculate a Trypticase 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 CFT073, NR-2654.”

**Biosafety Level:** 2  

**Disclaimers:**

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