**Vibrio cholerae**, Strain El Tor 34-D 23

**Catalog No. NR-150**

(Derived from ATCC® 14731™)

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

**Contributor:**

ATCC®

**Product Description:**

**Bacteria Classification:** Vibronaceae, Vibrio

**Species:** Vibrio cholerae

**Strain:** El Tor 34-D 23 (NCTC 4715)

**Serogroup:** O:3 (non-O1, non-O139)

**Original Source:** Isolated in 1934 from a healthy pilgrim at the El Tor Quantine camp

**Comment:** Vibrio cholerae (V. cholerae), strain El Tor 34-D 23 was deposited at ATCC® in 1962 by Dr. Kenneth J. Steel, National Collection of Type Cultures, Central Public Health Laboratory, London, England.

V. cholerae non-O1, non-O139 strains are generally recognized as less pathogenic than the classical or El Tor biotypes. Most outbreaks are sporadic and localized, therefore lacking any epidemic potential. In 1992 a departure from this trend occurred when a non-O1 serogroup, which later was assigned a new serogroup O139, caused epidemic of cholera-like disease. Since then there has been an escalating interest in non-O1, non-O139 serogroups. Emergence of a newer variant by horizontal gene transfer from O1 to a non-O1 serogroup has been reported, as in the genealogy of V. cholerae O139. V. cholerae non-O1, non-O139 strains possess ToxR, a protein that regulate several virulence factors, and can acquire the toxin-coregulated pilus (TCP) from toxigenic V. cholerae O1 by horizontal gene transfer; this is essential for host intestinal colonization and plays an important role in the pathogenesis of cholera.

**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-150 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: Vibrio cholerae, Strain El Tor 34-D 23, NR-150.”

**Biosafety Level:** 2


**Disclaimers:**

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References:

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