**Vibrio cholerae**, Strain Nanking 32/123

**Catalog No. NR-149**  
(Derived from ATCC® 14730™)

For research use only. Not for human use.

**Contributor:**  
ATCC®

**Product Description:**  
**Bacteria Classification:** Vibrioaceae, Vibrio  
**Species:** Vibrio cholerae  
**Strain:** Nanking 32/123 (NCTC 4711)  
**Serogroup:** O:2 (non-O1, non-O139)  
**Original Source:** Isolated in 1932 from a case of cholera, Nanking, China  
**Comments:** Vibrio cholerae (V. cholerae), strain Nanking 32/123 was deposited at ATCC® in 1962 by Dr. Kenneth J. Steel, National Collection of Type Cultures, Central Public Health Laboratory, London, England. Prior to deposition, this strain was hemolytic in sheep red blood cells and showed no agglutination in O group I antiserum.

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 genesis 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.1-4

**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-149 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 Nanking 32/123, NR-149."

**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.