Vibrio cholerae, Strain Nanking 32/124

Catalog No. NR-152

(Derived from ATCC[®] 14733[™])

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Contributor:

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Product Description:

<u>Bacteria Classification</u>: Vibrionaceae, Vibrio <u>Species</u>: Vibrio cholerae <u>Strain</u>: Nanking 32/124 (NCTC 8042) <u>Serogroup</u>: O:7 (non-O1, non-O139)¹ <u>Original Source</u>: Isolated in 1932 from a case of cholera, Nanking, China²

<u>Comments</u>: *Vibrio cholerae* (*V. cholerae*), strain Nanking 32/124 was deposited at ATCC[®] in 1962 by Dr. Kenneth J. Steel, National Collection of Type Cultures, Central Public Health Laboratory, London, England. This strain showed no agglutination in O group I antiserum prior to deposition.

V. cholerae non-O1, non-O139 strains are generally recognized as less pathogenic than the classical or El Tor Most outbreaks are sporadic and localized, biotypes. 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.^{3,4}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-152 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 32/124, NR-152."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see <u>www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm</u>.

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