Vibrio cholerae, Strain 2125

Catalog No. NR-146  
(Derived from ATCC® 39050™)

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Contributor:  
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Product Description:  
Bacteria Classification: Vibroniaceae, Vibrio  
Species: Vibrio cholerae  
Strain: 2125  
Serogroup: O:1  
Biotype: El Tor  
Serotype: Inaba  
Comment: DNA coding sequence of cholera toxin (GenBank: E00132) and DNA sequence from V. cholera toxin (ctx) operon strain 2125 (GenBank: X00171) are available.

Vibrio cholerae (V. cholerae) is a natural inhabitant of warm aquatic environments and the causative agent of the diarrheal disease cholera. More than 200 O-antigen serogroups have been identified but only O1 and more recently O139 are known to cause epidemic and pandemic cholera. Occasionally, there are cholera outbreaks that result from non-O1 and non-O139 serotypes. V. cholerae colonizes the mucosal surface of the small intestines of humans, the only known animal host. Cholera has a high lethality if left untreated, and millions have died in the seven pandemics that have occurred since 1817.

Cholera toxin, the toxin-coregulated pilus (TCP) and the central regulatory protein, ToxR, are recognized as significant factors in the pathogenicity of toxigenic strains of V. cholerae serogroups O1 and O139.

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-146 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 2125, NR-146."

Biosafety Level: 2  

Disclaimers:  
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References:

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