Vibrio cholerae, Strain PR542

Catalog No. NR-155
(Derived from ATCC® 14103™)

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Contributor:
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Product Description:
Bacteria Classification: Vibrionaceae, Vibrio
Species: Vibrio cholerae
Strain: PR542
Biotype: Classical
Serogroup: O:1
Bacteriophage Type: Group IV (S. Mukerjee)1,2
Original Source: Human clinical specimen from the cholera epidemic in Calcutta, India (circa 1960)
Comment: Vibrio cholerae (V. cholerae), strain PR542 was deposited at ATCC® in 1960 by Dr. S. Mukerjee, Division of Microbiology, Indian Institute for Biochemistry and Experimental Medicine, Calcutta, India.

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.3 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.4 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 O139.5

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-155 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 PR542, NR-155.”

Biosafety Level: 2

Disclaimers:
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References:

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