Vibrio cholerae, Strain Kasauli 73

Catalog No. NR-151
(Derived from ATCC® 14732™)

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Contributor:
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Product Description:
Bacteria Classification: Vibronaceae, Vibrio
Species: Vibrio cholerae
Strain: Kasauli 73 (NCTC 4716)
Serogroup: O:4 (non-O1, non-O139)
Original Source: Isolated in 1932 from a case of cholera, Kasauli, India

Comments: Vibrio cholerae (V. cholerae), strain Kasauli 73 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 regulates 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-151 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 Kasauli 73, NR-151.”

Biosafety Level: 2


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References:

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