

***Vibrio cholerae*, Strain HC-81A1 (Biovar El Tor)**

**Catalog No. NR-28891**

**Product Description:** *Vibrio cholerae* (*V. cholerae*), strain HC-81A1 was deposited as a serogroup O1, biovar El Tor strain that was isolated from a patient in Haiti in 2010.

**Lot<sup>1</sup>: 63424842**

**Manufacturing Date: 25MAR2015**

| TEST   | SPECIFICATIONS   | RESULTS   |
|--|--|---|
| <b>Phenotypic Analysis</b><br>Cellular morphology<br>Colony morphology <sup>2</sup><br><br>Hemolysis <sup>3</sup><br>Motility (wet mount)<br>VITEK <sup>®</sup> MS (MALDI-TOF) | Gram-negative rods<br>Report results<br><br>Report results<br>Report results<br>Consistent with <i>V. cholerae</i> | Gram-negative curved rods<br>Circular, convex, entire, smooth and gray (Figure 1)<br>Non-hemolytic <sup>4</sup><br>Motile<br>Consistent with <i>V. cholerae</i> |
| <b>Genotypic Analysis</b><br>Sequencing of 16S ribosomal RNA gene (~ 820 base pairs)   | Consistent with <i>V. cholerae</i>   | Consistent with <i>V. cholerae</i> <sup>5,6</sup>   |
| <b>Purity (post-freeze)<sup>7</sup></b>  | Growth consistent with <i>V. cholerae</i>  | Growth consistent with <i>V. cholerae</i>   |
| <b>Viability (post-freeze)<sup>2</sup></b>   | Growth   | Growth  |

<sup>1</sup>The deposited material was inoculated into Tryptic Soy broth and grown 27 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles and grown 20 hours under propagation conditions to produce this lot.

<sup>2</sup>24 hours on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions

<sup>3</sup>24 hours on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions

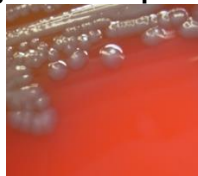
<sup>4</sup>On aerobic sheep blood agar plates, non-hemolytic *V. cholerae* frequently produces greenish clearing around areas of heavy growth but not around well-isolated colonies. This phenomenon, often described as "hemodigestion," is produced by metabolic by-products which are inhibited by anaerobic incubation of the blood agar plate. From Chapter VI. Laboratory Identification of *Vibrio cholerae* in: Laboratory Methods for the Diagnosis of *Vibrio cholerae*, Centers for Disease Control and Prevention <http://www.cdc.gov/cholera/laboratory.html>

<sup>5</sup>99.9% identical to *V. cholerae*, strain HC-46A1 (GenBank: AGVC02000001)

<sup>6</sup>Also consistent with other *Vibrio* species

<sup>7</sup>Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions.

**Figure 1 - Morphology**



**Date:** 21 MAY 2015

**Signature:**

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