

***Vibrio cholerae*, Strain HC-46B1**

Catalog No. NR-28856

Product Description: *Vibrio cholerae* (*V. cholerae*), strain HC-46B1 was deposited as a serogroup non-O1/non-O139 strain that was isolated from a patient in Haiti in 2010.

Lot¹: 63424817

Manufacturing Date: 25MAR2015

| TEST | SPECIFICATIONS | RESULTS | | |
|--|--|---|---|--|
| | | COLONY TYPE 1 | COLONY TYPE 2 | COLONY TYPE 3 |
| Phenotypic Analysis^{2,3} Cellular morphology Colony morphology (Figure 1) Hemolysis ^{4,5} Motility (wet mount) VITEK [®] MS (MALDI-TOF) | Gram-negative rods Report results Report results Report results Consistent with <i>V. cholerae</i> | Gram-negative curved rods Circular, slight peaked, entire, smooth and cream β-hemolytic Motile Consistent with <i>V. cholerae</i> | Gram-negative curved rods Circular, low convex, entire, smooth and gray Non-hemolytic Motile Consistent with <i>V. cholerae</i> | Gram-negative curved rods Irregular, flat, entire, rough and white Non-hemolytic Motile Consistent with <i>V. cholerae</i> |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene | Consistent with <i>V. cholerae</i> | Consistent with <i>V. cholerae</i> (~ 1490 base pairs) ⁶ | Consistent with <i>V. cholerae</i> (~ 1490 base pairs) ⁶ | Consistent with <i>V. cholerae</i> (~ 1490 base pairs) ⁶ |
| Purity (post-freeze)⁷ | Growth consistent with <i>V. cholerae</i> | Growth consistent with <i>V. cholerae</i> | | |
| Viability (post-freeze)² | Growth | Growth | | |

¹NR-28856 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 25 hours at 37°C in an aerobic atmosphere to produce this lot.

²19 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³Three colony types were observed. Plating of the individual colony types showed no reversion to the mixed colonies after 24 hours. The 16S ribosomal RNA gene of each colony type was sequenced and found to be > 99.9% identical with the other colony types and with *V. cholerae*.

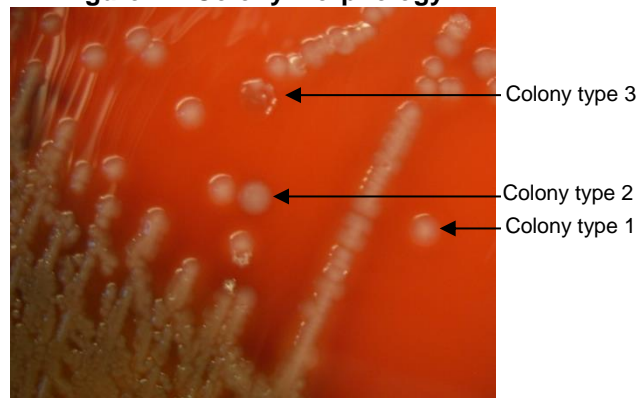
⁴19 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁵On 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* by Centers for Disease Control and Prevention (<http://www.cdc.gov/cholera/laboratory.html>)

⁶≥ 99.7% identical to *V. cholerae*, strain HC-46B1 (GenBank: AJSL01000001.1)

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

Figure 1 – Colony Morphology



Certificate of Analysis for NR-28856

Date: 20 MAY 2015

Signature:



BEI Resources Authentication

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