

Certificate of Analysis for NR-28827

***Vibrio cholerae*, Strain CP1046(19) (Biovar El Tor)**

Catalog No. NR-28827

Product Description: *Vibrio cholerae* (*V. cholerae*), strain CP1046(19) was deposited as a serogroup O1, biovar El Tor strain that was isolated from a patient in Peru in 1995.

Lot¹: 62013078

Manufacturing Date: 18SEP2013

| TEST | SPECIFICATIONS | RESULTS |
|--|--|---|
| Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis ³ Motility (wet mount) Biochemical characterization: VITEK [®] 2 System (GN Card) Analytical profile index (API [®] 20E) | Report results Report results Report results Report results Consistent with <i>V. cholerae</i> Consistent with <i>V. cholerae</i> | Gram-negative rods Circular, low convex, entire, smooth, opaque and yellow (Figure 1) β-hemolytic Motile Consistent with <i>V. cholerae</i> Consistent with <i>V. cholerae</i> |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 750 base pairs) Riboprinter [®] Microbial Characterization System | Consistent with <i>V. cholerae</i> Consistent with <i>V. cholerae</i> | Consistent with <i>V. cholerae</i> ⁴ Consistent with <i>V. cholerae</i> |
| Viability (post-freeze)² | Growth | Growth |

¹NR-28827 was produced by inoculation of the deposited material into Brain Heart Infusion broth and grown 24 hours in an aerobic atmosphere at 37°C. Broth inoculum was added to kolles which were grown 24 hours at 37°C and aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

²24 hours at 37°C and aerobic atmosphere on Brain Heart Infusion agar

³24 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁴Also consistent with other *Vibrio* species

Figure 1



Date: 08 FEB 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

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