

***Acinetobacter baumannii*, Strain Naval-81**

**Catalog No. NR-17786**

**Product Description:** *Acinetobacter baumannii* (*A. baumannii*), strain Naval-81 was isolated on October 9, 2006, from human blood at the National Naval Medical Center in Bethesda, Maryland, USA.

**Lot<sup>1</sup>: 70000229**

**Manufacturing Date: 01DEC2016**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility <sup>3</sup> Growth at 44°C ± 2°C <sup>5,6</sup> Biochemical characterization: Catalase Oxidase VITEK <sup>®</sup> 2 (GN card) VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-negative rods Report results  Nonmotile Growth  Positive Negative <i>A. baumannii</i> (≥ 90%) <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, mucoid and cream (Figure 1) <b>Motile<sup>4</sup></b> Growth  Positive Negative <sup>7</sup> <i>A. baumannii</i> (99%) <sup>8</sup> <i>A. baumannii</i> complex (99.9%) <sup>9</sup>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 820 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain Naval-81 (GenBank: AFDB02000002.1)	100% sequence identity to <i>A. baumannii</i> , strain Naval-81 (GenBank: AFDB02000002.1)
<b>Purity (post-freeze)<sup>10</sup></b>	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-17786 was produced by inoculation of NRS-17786 (lot 61598576) into Tryptic Soy broth and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

<sup>2</sup>1 day on Tryptic Soy agar at 37°C in an aerobic atmosphere

<sup>3</sup>Motility test performed on Remel™ Motility Test Medium with TTC Indicator for 1 day at 37°C in an aerobic atmosphere.

<sup>4</sup>*Acinetobacter baumannii* lack flagella but exhibit a twitching/swarming motility, which may be due to type IV pili or excretion of polysaccharide. For additional information please refer to McQueary, C. N., et al., "Extracellular Stress and Lipopolysaccharide Modulate *Acinetobacter baumannii* Surface-Associated Motility." *J. Microbiol.* 50 (2012): 434-43. PubMed: 22752907.

<sup>5</sup>1 day on Tryptic Soy agar at 44°C ± 2°C in an aerobic atmosphere

<sup>6</sup>Growth at 44°C ± 2°C differentiates *A. baumannii* from *A. calcoaceticus*, which does not grow at 44°C ± 2°C.

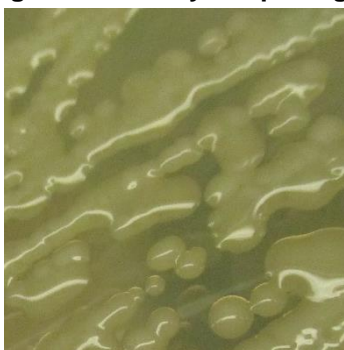
<sup>7</sup>The absence of cytochrome c oxidases differentiates the *Acinetobacter* genus from other Moraxellaceae; refer to Bergey's Manual of Systematic Bacteriology Vol. 2, Pts. A & B: The Proteobacteria. (2nd ed., rev. ed.). Edited by Garrity, G. (2000). New York: Springer. p. 454.

<sup>8</sup>Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. For additional information, please refer to O'Hara, C. M. and J. M. Miller. "Evaluation of the VITEK 2 ID-GNB Assay for Identification of Members of the Family *Enterobacteriaceae* and Other Nonenteric Gram-Negative Bacilli and Comparison with the VITEK GNI+ Card." *J. Clin. Microbiol.* 41 (2003): 2096-2101. PubMed: 12734254.

<sup>9</sup>*A. baumannii* complex species include *A. baumannii*, *A. calcoaceticus*, *A. pittii* and *A. nosocomialis*.

<sup>10</sup>Purity of this lot was assessed for 7 days on Tryptic Soy agar at 37°C in an aerobic atmosphere with and without 5% CO<sub>2</sub>.

Figure 1: Colony Morphology



Date: 22 FEB 2017

Signature: 

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