

***Acinetobacter baumannii*, Strain AB5075-UW**

**Catalog No. NR-49900**

**Product Description:** *Acinetobacter baumannii* (*A. baumannii*), strain AB5075-UW is a single colony isolate of strain AB5075, which was isolated in 2008 from a human patient with osteomyelitis of the tibia at Walter Reed Army Medical Center, Bethesda, Maryland. Strain AB5075-UW was also deposited as sensitive to tetracycline.

**Lot<sup>1</sup>: 63721372**

**Manufacturing Date: 14AUG2015**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) Biochemical tests: Catalase Oxidase VITEK <sup>®</sup> 2 Compact (GN Card)	Gram-negative rods Report results  Report results  Positive Negative Consistent with <i>A. baumannii</i>	Gram-negative rods Circular, slight peaked to peaked, entire, smooth and gray (Figure 1) Non-motile  Positive Negative Consistent with <i>A. baumannii</i>
<b>Antibiotic Susceptibility Profile<sup>3</sup></b> VITEK <sup>®</sup> (AST-GN69 card) <sup>4</sup> Ampicillin Amoxicillin/Clavulanic Acid Ampicillin/Sulbactam Piperacillin/Tazobactam Cefazolin Ceftazidime Ceftriaxone Cefepime Imipenem Gentamicin Tobramycin Ciprofloxacin Levofloxacin Nitrofurantoin Trimethoprim/Sulfamethoxazole VITEK <sup>®</sup> (AST-XN06 card) <sup>4</sup> Ticarcillin Piperacillin Cefalotin Cefuroxime Cefuroxime Axetil Cefotetan Cefoxitin Cefpodoxime Cefotaxime Ceftizoxime Aztreonam Doripenem Nalidixic Acid Moxifloxacin Norfloxacin Tetracycline Tigecycline	Report results Report results Resistant Report results Report results Resistant Report results Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Report results Report results  Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Resistant Report results Report results Report results Report results Report results Resistant Report results Report results Report results Sensitive Report results	Resistant ( $\geq 32 \mu\text{g/mL}$ ) Resistant ( $\geq 32 \mu\text{g/mL}$ ) Resistant ( $\geq 32 \mu\text{g/mL}$ ) Resistant ( $\geq 128 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Intermediate ( $= 8 \mu\text{g/mL}$ ) <sup>5</sup> Resistant ( $\geq 16 \mu\text{g/mL}$ ) Sensitive ( $= 2 \mu\text{g/mL}$ ) <sup>6</sup> Resistant ( $\geq 4 \mu\text{g/mL}$ ) Inconclusive <sup>7</sup> Resistant ( $\geq 512 \mu\text{g/mL}$ ) Resistant ( $\geq 320 \mu\text{g/mL}$ )  Resistant ( $\geq 128 \mu\text{g/mL}$ ) Resistant ( $\geq 128 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 8 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 8 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 64 \mu\text{g/mL}$ ) Resistant ( $\geq 8 \mu\text{g/mL}$ ) Resistant ( $\geq 32 \mu\text{g/mL}$ ) Resistant ( $\geq 8 \mu\text{g/mL}$ ) Resistant ( $\geq 16 \mu\text{g/mL}$ ) Sensitive ( $\leq 1 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ )

Etest® antibiotic test strips <sup>8</sup> Doxycycline <sup>9</sup> Rifampicin <sup>9</sup> Erythromycin <sup>9</sup>	Report results Report results Report results	No breakpoint (= 1.0 µg/mL) No breakpoint (12 to 16 µg/mL) No breakpoint (= 3 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (1440 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> type strain (GenBank: X81660)	100% sequence identity to <i>A. baumannii</i> type strain (GenBank: X81660) <sup>10</sup>
<b>Purity (post-freeze)<sup>11</sup></b>	Consistent with expected colony morphology	Consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-49900 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day under propagation conditions to produce this lot.

<sup>2</sup>1 day on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions

<sup>3</sup>Specifications were provided by Colin Manoil, Ph.D., Professor, Genomes Sciences, University of Washington, Seattle, Washington, USA, without reference to Minimum Inhibitory Concentration (MIC) or CLSI guidelines.

<sup>4</sup>Results are interpreted based on MIC Interpretation Guideline: CLSI M100-S19 (2009).

<sup>5</sup>*A. baumannii*, strain AB5075-UW was deposited as being resistant to imipenem. Antibiotic susceptibility testing performed in duplicate determined that for strain AB5075-UW, the imipenem MIC is 8 µg/mL, which is considered an intermediate susceptibility.

<sup>6</sup>*A. baumannii*, strain AB5075-UW was deposited as being resistant to tobramycin. Antibiotic susceptibility testing performed in duplicate determined that for strain AB5075-UW, the tobramycin MIC is 2 µg/mL, which is considered sensitive.

<sup>7</sup>*A. baumannii*, strain AB5075-UW was deposited as being resistant to levofloxacin. Antibiotic susceptibility testing performed in duplicate determined that for strain AB5075-UW, the levofloxacin MICs are 4 µg/mL and 8 µg/mL, which are interpreted as intermediate and resistant, respectively.

<sup>8</sup>1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

<sup>9</sup>No breakpoint available to determine susceptibility

<sup>10</sup>100% identical to *A. baumannii*, strain AB5075-UW (GenBank: JHUI01000008.1)

<sup>11</sup>Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions.

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch

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