

***Acinetobacter baumannii*, Isolate 12**

**Catalog No. NR-13385**

Product Description: *Acinetobacter baumannii* (*A. baumannii*), isolate 12 was obtained from a human trachea in 2008.

**Lot<sup>1</sup>: 58666851**

**Manufacturing Date: 01JUL2009**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b>		
Cellular morphology	Gram-negative rod	Gram-negative rod
Colony morphology <sup>2</sup>	Report results	Circular, convex, entire, gray and mucoid (Figure 1)
Analytical profile index (API® 20 E)	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i> <sup>3</sup>
Catalase	Positive	Positive
Oxidase	Negative	Negative
Growth at 44°C <sup>4</sup>	Growth	Growth
Antibiotic resistance <sup>5</sup>		
Penicillin family <sup>6</sup>	Report results	Resistant
Penicillin family/β-lactamase inhibitor combinations		
Ampicillin/Sulbactam	Report results	Sensitive
Amoxicillin/Clavulanic Acid	Report results	Resistant
Ticarcillin/Clavulanic Acid	Report results	Resistant
Piperacillin/Taxobactam	Report results	Resistant
Cephalosporin family <sup>7</sup>	Report results	Resistant
Aminoglycoside family		
Gentamycin	Report results	Resistant
Tobramycin	Report results	Resistant
Amikacin	Report results	Sensitive
Fluoroquinolone family		
Moxifloxacin	Report results	Resistant
Naladixic Acid	Report results	Resistant
Ciprofloxacin	Report results	Resistant
Levofloxacin	Report results	Intermediate
Norfloxacin	Report results	Resistant
Tetracycline	Report results	Resistant
Tigecycline	Report results	Sensitive
Trimethoprim/sulfamethoxazole combination	Report results	Sensitive
Nitrofurantoin	Report results	Resistant
Monobactam (aztreonam)	Report results	Resistant
Carbapenem family <sup>8</sup>	Report results	Resistant
<b>Genotypic Analysis</b>		
Sequencing of 16S ribosomal RNA gene (~ 1450 bp)	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i>
<b>PCR Assay of Extracted DNA</b>		
16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>*A. baumannii*, isolate 12 was obtained from human trachea in 2008. NR-13385 was produced by inoculation of the deposited material into Tryptic Soy Broth and incubated for 24 hours at 37°C in an aerobic atmosphere. Broth was added to Kolles and incubated for 24 hours at 37°C in an aerobic atmosphere to produce this lot.

<sup>2</sup>24 hours at 37°C and aerobic atmosphere on Tryptic Soy Agar with 5% sheep blood

<sup>3</sup>Also consistent with *Acinetobacter calcoaceticus* (*A. calcoaceticus*).

<sup>4</sup>Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus*, which does not grow at 44°C.

<sup>5</sup>Vitek 2 Cards AST-EXN7 and AST-GN24

<sup>6</sup>Penicillin family members tested include: Ampicillin, Ticarcillin, and Piperacillin

<sup>7</sup>Cephalosporin family members tested include: Cefotaxime, Ceftizoxime, Cefazolin, Cefuroxime, Cefuroxime Axetil, Cefotetan, Ceftazidime, Ceftriaxone, Cefepime, Cefalotin, Cefoxitin and Cefpodoxime.

<sup>8</sup>Carbapenem family members tested include: Imipenem and Meropenem

Figure 1



**Date:** 30 APR 2010

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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