

***Acinetobacter baumannii*, Isolate 4**

Catalog No. NR-13377

Product Description: *Acinetobacter baumannii* (*A. baumannii*), isolate 4 was obtained from human sputum in 2008.

Lot¹: 58705797

Manufacturing Date: 07AUG2009

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology ^{2,3}	Report results	Irregular, raised and beige (Figure 1)
Colony Type I	Report results	Irregular, convex, entire, mucoid and beige (Figure 2)
Colony Type II		
Analytical profile index (API [®] 20 E)	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i> ⁴
Catalase	Positive	Positive
Oxidase	Negative	Negative
Growth at 44°C ^{5,6}	Growth	Growth
Antibiotic resistance ⁷		
Penicillin family ⁸	Report results	Resistant
Penicillin family/β-lactamase inhibitor combinations		
Ampicillin/Sulbactam	Report results	Intermediate
Amoxicillin/Clavulanic Acid	Report results	Resistant
Ticarcillin/Clavulanic Acid	Report results	Resistant
Piperacillin/Tazobactam	Report results	Resistant
Cephalosporin family ⁹	Report results	Resistant
Aminoglycoside family ¹⁰	Report results	Sensitive
Fluoroquinolone family ¹¹	Report results	Resistant
Tetracycline	Report results	Resistant
Tigecycline	Report results	Sensitive
Trimethoprim/sulfamethoxazole combination	Report results	Resistant
Nitrofurantoin	Report results	Resistant
Monobactam (aztreonam)	Report results	Resistant
Carbapenem family ¹²	Report results	Resistant
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1410 bp)	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i>
PCR Assay of Extracted DNA		
16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)²	Growth	Growth

¹NR-13377 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.

²24 hours at 37°C and aerobic atmosphere on Tryptic Soy Agar with 5% sheep blood

³This isolate had two colony types which were tested individually. Both colony types gave identical results for all tests, but did not revert when streaked individually. The 16S RNA gene sequence was identical for both colony types.

⁴Also consistent with *Acinetobacter calcoaceticus* (*A. calcoaceticus*).

⁵24 hours at 44°C and aerobic atmosphere in Brain Heart Infusion broth

⁶Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus*, which does not grow at 44°C.

⁷Vitek 2 Cards AST-EXN7 and AST-GN24

⁸Penicillin family members tested include: Ampicillin, Ticarcillin, and Piperacillin.

⁹Cephalosporin family members tested include: Cefotaxime, Ceftizoxime, Cefazolin, Cefuroxime, Cefuroxime Axetil, Cefotetan, Ceftazidime, Ceftriaxone, Cefepime, Cefalotin, Cefoxitin and Cefpodoxime.

¹⁰Aminoglycoside family members tested include: Gentamycin, Tobramycin and Amikacin

¹¹Fluoroquinolone family members tested include: Moxifloxacin, Naladixic Acid, Ciprofloxacin, Levofloxacin and Norfloxacin.

¹²Carbapenem family members tested include: Imipenem and Meropenem.

Figure 1

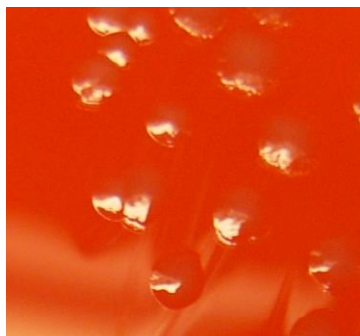
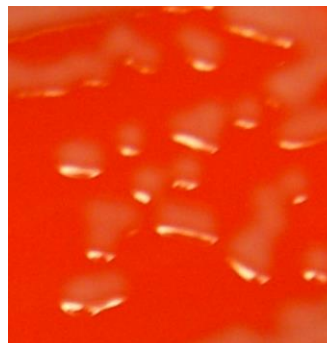


Figure 2



Date: 26 JUL 2010

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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