

***Acinetobacter baumannii*, Isolate 8**

Catalog No. NR-13381

Product Description: *Acinetobacter baumannii* (*A. baumannii*), isolate 8 was obtained from human sputum in 2008.

Lot¹: 58666798

Manufacturing Date: 26JUN2009

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology ^{2,3}	Report results	Circular, raised, entire and opaque (Figure 1)
Colony Type I	Report results	Flat, undulate and gray (Figure 2)
Colony Type II	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i> ⁴
Analytical profile index (API [®] 20 E) ⁴	Growth	Growth
Growth at 44°C ^{5,6}	Positive	Positive
Catalase	Negative	Negative
Oxidase	Report results	Resistant
Antibiotic resistance ⁷	Report results	Sensitive
Penicillin family ⁸	Report results	Resistant
Penicillin family/ β -lactamase inhibitor combinations	Report results	Resistant
Ampicillin/Sulbactam	Report results	Resistant
Amoxicillin/Clavulanic Acid	Report results	Resistant
Ticarcillin/Clavulanic Acid	Report results	Resistant
Piperacillin/Tazobactam	Report results	Resistant
Cephalosporin family	Report results	Resistant
Cefotaxime	Report results	Resistant
Ceftizoxime	Report results	Resistant
Cefazolin	Report results	Resistant
Cefuroxime	Report results	Resistant
Cefuroxime Axetil	Report results	Resistant
Cefotetan	Report results	Resistant
Ceftazidime	Report results	Resistant
Ceftriaxone	Report results	Resistant
Cefepime	Report results	Intermediate
Cefalotin	Report results	Resistant
Cefoxitin	Report results	Resistant
Cefpodoxime	Report results	Resistant
Aminoglycoside family	Report results	Resistant
Gentamicin	Report results	Intermediate
Tobramycin	Report results	Sensitive
Amikacin	Report results	
Fluoroquinolone family	Report results	Resistant
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	Resistant
Nitrofurantoin	Report results	Resistant
Monobactam (aztreonam)	Report results	Resistant
Carbapenem family ⁹	Report results	Resistant

Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 bp)	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i>
TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted DNA 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)²	Growth	Growth

¹NR-13381 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*)

⁵Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus*, which does not grow at 44°C.

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

⁷Vitek 2 Cards AST-EXN7 and AST-GN24

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

⁹Carbapenem family members tested include: Imipenem and Meropenem.

Figure 1

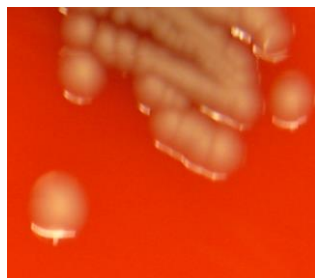
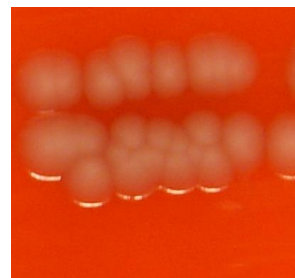


Figure 2



Date: 27 JUL 2010

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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