

Certificate of Analysis for NR-9667

Acinetobacter baumannii, Strain H72721

Catalog No. NR-9667

Product Description: Acinetobacter baumannii (A. baumannii) is a Gram-negative bacterium that exhibits the ability to rapidly develop antibiotic resistance and is a major cause of hospital acquired infection.

Lot¹: 58179036 Manufacturing Date: 15MAY2008

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rod	Gram-negative rod
Colony morphology ²	Report results	Circular, entire, raised, mucoid and opaque
Motility	Nonmotile	Nonmotile
Analytical profile index (API® 20 E)	Consistent with <i>A. baumannii</i>	Consistent with <i>A. baumannii</i> ³
Vitek 2 biochemical profile (GN)	Consistent with A. baumannii	Consistent with A. baumannii
Catalase	Positive	Positive
Oxidase	Negative	Negative
Growth at 44°C ⁴	Growth	Growth
Antibiotic resistance ⁵		
Penicillin family ⁶	Report results	Resistant
Penicillin family/β-lactamase inhibitor combinations ⁷	Report results	Resistant
Cephalosporin family ⁸	Report results	Resistant
Aminoglycoside family		
Gentamycin	Report results	Resistant
Tobramycin	Report results	Sensitive
Amikacin	Report results	Sensitive
Fluoroquinolone family ⁹	Report results	Resistant
Tetracycline	Report results	Resistant
Trimethoprim/sulfamethoxazole combination	Report results	Resistant
Nitrofurantoin	Report results	Resistant
Monobactam (aztreonam)	Report results	Resistant
Carbapenem		
Imipenem	Report results	Resistant
Meropenem	Report results	Resistant
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (660 bp)	Consistent with A. baumannii	Consistent with A. baumannii
PCR Assay of Extracted DNA		
16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze) ²	Growth	Growth

¹A. baumannii, strain H72721 was isolated at Landstahl Regional Medical Center in Germany in June 2006 from the sputum of a Canadian soldier injured in Afghanistan. NR-9667 was produced by inoculation of a transport swab onto Tryptic Soy Agar (BD 236950). A glycerol stock was prepared from the agar plate. was inoculated with The glycerol stock was inoculated into Tryptic Soy Broth (BD 211825) 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.

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²24 hours at 37°C and aerobic atmosphere on Tryptic Soy Agar.

³Also consistent with Acinetobacter calcoaceticus (A. calcoaceticus).

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

⁵Vitek 2 Cards AST-GN05 and AST-GN09

⁶Penicillin family members tested include: Ampicillin, Ticarcillin and Piperacillin.

⁷Penicillin/β-lactamase inhibitor combinations tested include: Ampicillin/Sulbactam, Amoxicillin/Clavulanic Acid, Ticarcillin/Clavulanic Acid and Piperacillin/Tazobactam.

⁸Cephalosporin family members tested include: Cefazolin, Cefuroxime, Cefuroxime Axetil, Cefotetan, Ceftazidime, Ceftriaxone, Cefepime, Cefalotin, Cefoxitin and Cefpodoxime.

⁹Fluoroquinolone family members tested include: Naladixic Acid, Ciprofloxacin, Levofloxacin and Norfloxacin.



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Date: 15 JAN 2009 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

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