

***Klebsiella pneumoniae*, Strain VA360**
Catalog No. NR-48977
Product Description: *Klebsiella pneumoniae* (*K. pneumoniae*), strain VA360 was isolated in 2007 from a tertiary care medical center in Cleveland, Ohio, USA.

Lot¹: 63431903
Manufacturing Date: 10APR2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results Consistent with <i>K. pneumoniae</i>	Gram-negative rods Circular, low convex, entire, smooth, mucoid and cream (Figure 1) Non-motile Consistent with <i>K. pneumoniae</i>
Antibiotic Susceptibility Profile VITEK [®] (AST-GN69) ³ ESBL ⁴ Ampicillin Amoxicillin/Clavulanic Acid Ampicillin/Sulbactam Piperacillin/Tazobactam Cefazolin Ceftazidime Ceftriaxone Cefepime Ertapenem Imipenem Gentamicin Tobramycin Ciprofloxacin Levofloxacin Nitrofurantoin Trimethoprim/Sulfamethoxazole VITEK [®] (AST-XN06) ³ Ticarcillin Piperacillin Cefalotin Cefuroxime Cefuroxime Axetil Cefotetan Cefoxitin Cefpodoxime Cefotaxime Ceftizoxime Aztreonam Doripenem Meropenem Amikacin Nalidixic Acid Moxifloxacin Norfloxacin Tetracycline Tigecycline	Report results Resistant Resistant Report results Report results Resistant Resistant Resistant Resistant Resistant Resistant Resistant Report results Resistant Resistant Report results Resistant Report results Resistant Resistant Report results Resistant Resistant Resistant Resistant Resistant Resistant Resistant Report results Report results Sensitive Report results	Negative Resistant (≥ 32 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 128 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 512 µg/mL) Resistant (≥ 320 µg/mL) Resistant (≥ 28 µg/mL) Resistant (≥ 128 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 64 µg/mL) Resistant (= 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Intermediate (= 32 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (= 4 µg/mL) Sensitive (= 2 µg/mL)

Certificate of Analysis for NR-48977

TEST	SPECIFICATIONS	RESULTS
Antibiotic Susceptibility Profile (continued) Etest [®] antibiotic test strips ⁵ Chloramphenicol ⁶	Resistant	Resistant (> 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	Consistent with <i>K. pneumoniae</i>	Consistent with <i>K. pneumoniae</i> ⁷
Purity (post-freeze) ⁸	Consistent with <i>K. pneumoniae</i>	Consistent with <i>K. pneumoniae</i>
Viability (post-freeze) ²	Growth	Growth

¹*K. pneumoniae*, strain VA360 was deposited by Marcelo Tolmasky, Ph.D., Professor, Center for Applied Biotechnology Studies, California State University Fullerton, Fullerton, California, USA. The deposited material was inoculated into Tryptic Soy broth and grown for 24 hours in an aerobic atmosphere at 37°C and preserved in 10% glycerol. NR-48977 was produced by inoculation of the preserved material into Tryptic Soy broth and incubated for 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic soy agar with 5% defibrinated sheep blood kolles which were grown 18 hours at 37°C in an aerobic atmosphere to produce this lot.

²19 hours at 37°C in an aerobic atmosphere on Tryptic soy agar with 5% defibrinated sheep blood

³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁴The VITEK[®]2 ESBL test is a confirmatory test for Extended-Spectrum Beta-Lactamases (ESBLs) inhibited by clavulanic acid and utilizes cefepime, cefotaxime and ceftazidime, with and without clavulanic acid, to determine a positive or negative result.

⁵24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar

⁶For Chloramphenicol (bioMérieux Etest[®] 412308), a MIC ≤ 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate and a MIC ≥ 32 µg/mL is resistant.

⁷99.6% identical to GenBank: ANGH00000000 (*K. pneumoniae*, strain VA360)

⁸Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 24 JUL 2015

Signature:

BEI Resources Authentication

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

ATCC[®] is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

