

***Klebsiella pneumoniae*, Strain BIDMC 5**

Catalog No. NR-41920

Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain BIDMC 5 was isolated in 2008 from a human blood culture in Boston, Massachusetts, USA. *K. pneumoniae*, strain BIDMC 5 was deposited as a carbapenem-resistant strain and is part of a Carbapenem-Resistant Enterobacteriaceae (CRE) Sequencing Project at the Broad Institute. Strain BIDMC 5 was deposited as resistant to amikacin, ampicillin/sulbactam, ceftazidime, cefepime, ceftriaxone, cefuroxime, ciprofloxacin, gentamicin, meropenem, piperacillin/tazobactam, tobramycin and trimethoprim/sulfamethoxazole. NR-41920 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70007979

Manufacturing Date: 01SEP2017

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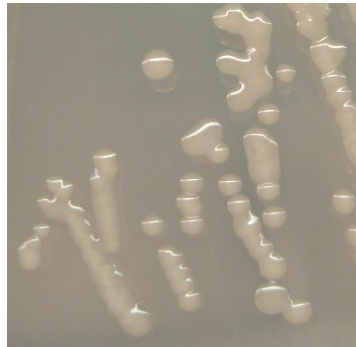
TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) VITEK® 2 Compact (GN card)	Gram-negative rods Report results Report results <i>K. pneumoniae</i> (≥ 89%)	Gram-negative rods Circular, convex, mucoid, entire, smooth and cream (Figure 1) Non-motile <i>K. pneumoniae</i> (99%)
Antibiotic Susceptibility Profile¹ ETEST® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar Ceftriaxone Tobramycin VITEK® (AST-GN83 Card) ² Ampicillin Amoxicillin/clavulanic acid Ampicillin/sulbactam Piperacillin/tazobactam Cefazolin Cefuroxime Cefuroxime axetil Cefoxitin Cefotaxime Ceftazidime Ceftriaxone Cefepime Aztreonam Meropenem Amikacin Gentamicin Ciprofloxacin Nitrofurantoin Trimethoprim/sulfamethoxazole	Resistant Resistant Report results Report results Resistant Resistant Resistant Resistant Report results Report results Report results Resistant Resistant Resistant Report results Resistant Resistant Resistant Resistant Resistant Resistant Report results Resistant	Resistant (32 µg/mL) Resistant (> 256 µg/mL) 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 (≥ 64 µg/mL) Resistant (= 16 µg/mL) Resistant (= 2 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 4 µg/mL) Resistant (= 256 µg/mL) Resistant (≥ 320 µg/mL)

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 780 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain BIDMC 5 (GenBank: JCNH01000006.1)	99.2% sequence identity to <i>K. pneumoniae</i> , strain BIDMC 5 (GenBank: JCNH01000006.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

²Minimum Inhibitory Concentration (MIC); MIC interpretation was determined using VITEK[®] 2 software version 07.01 combined with the bioMérieux Advanced Expert System™ (AES) software using the interpretation standard CLSI M100-S22 (2012) and the interpretation guideline "Natural Resistance." For more information, please refer to Sanders, C. C., et al. "Potential Impact of the VITEK 2 System and the Advanced Expert System on the Clinical Laboratory of a University-Based Hospital." *J. Clin. Microbiol.* 39 (2001): 2379-2385. PubMed: 11427542.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
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Technical Manager or designee, ATCC Federal Solutions

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