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SUPPORTING INFECTIOUS DISEASE RESEARCH

Klebsiella pneumoniae, Strain BWH 22

Catalog No. NR-41899

This reagent is the tangible property of the U.S. Government.

Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain BWH 22 was isolated in 2012 from human urine in Boston, Massachusetts, USA. *K. pneumoniae*, strain BWH 22 was deposited as a carbapenem-resistant strain and is part of a Carbapenem Resistant Enterobacteriaceae (CRE) Sequencing Project at the Broad Institute. Strain BWH22 was also deposited as resistant to meropenem. NR-41899 was produced by inoculation of BEI Resources seed lot 70007974 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.

Lot: 70056283

Manufacturing Date: 13OCT2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, cream, entire,
1 day at 37°C in an aerobic atmosphere on		smooth and mucoid (Figure 1)
Tryptic Soy agar		
Motility (wet mount)	Report results	Non-motile
VITEK [®] 2 Compact (GN card)	<i>K. pneumoniae</i> (≥ 89.9%)	K. pneumoniae (99%)
Antibiotic Susceptibility Profile ¹		
ETEST [®] antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on		
Mueller Hinton agar		
Ceftriaxone	Report results	Resistant (≥ 256 µg/mL)
Tobramycin	Report results	Resistant (≥ 256 µg/mL)
VITEK [®] (AST-GN83 Card)		
Ampicillin	Report results	Resistant (≥ 32 µg/mL)
Amoxicillin/clavulanic acid	Report results	Resistant (≥ 32 µg/mL)
Ampicillin/sulbactam	Report results	Resistant (≥ 32 µg/mL)
Piperacillin/tazobactam	Report results	Resistant (≥ 128 µg/mL)
Cefazolin	Report results	Resistant (≥ 64 µg/mL)
Cefuroxime	Report results	Resistant (≥ 64 µg/mL)
Cefuroxime axetil	Report results	Resistant (≥ 64 µg/mL)
Cefoxitin	Report results	Resistant (≥ 64 µg/mL)
Cefotaxime	Report results	Resistant (≥ 64 µg/mL)
Ceftazidime	Report results	Resistant (≥ 64 µg/mL)
Cefepime	Report results	Resistant (≥ 64 µg/mL)
Aztreonam	Report results	Resistant (≥ 64 µg/mL)
Meropenem	Report results	Resistant (≥ 16 µg/mL)
Amikacin	Report results	Resistant (≥ 64 µg/mL)
Gentamicin	Report results	Resistant (≥ 16 µg/mL)
Ciprofloxacin	Report results	Resistant (≥ 4 µg/mL)
Nitrofurantoin	Report results	Resistant (≥ 512 µg/mL)
Trimethoprim/sulfamethoxazole	Report results	Resistant (≥ 320 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.3% sequence identity to
(~ 1480 base pairs)	K. pneumonia, strain BWH 22	K. pneumonia, strain BWH 22
	(GenBank: JCNO01000016.1)	(GenBank: JCNO01000016.1)

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Certificate of Analysis for NR-41899

SUPPORTING INFECTIOUS DISEASE RESEARCH

TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze)	Growth consistent with expected	Growth consistent with expected
8 days at 37°C in an aerobic atmosphere with 5%	colony morphology	colony morphology
CO ₂ on Tryptic Soy agar with 5% defibrinated		
sheep blood		
Viability (post-freeze)	Growth	Growth
1 day at 37°C in an aerobic atmosphere on		
Tryptic Soy agar		

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

Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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