

# **Certificate of Analysis for NR-41897**

### Klebsiella pneumoniae, Strain BWH 2

#### Catalog No. NR-41897

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

#### **Product Description:**

Klebsiella pneumoniae (K. pneumoniae), strain BWH 2 was isolated in 2011 from the tissue of the tibial medulla of a human in the United States. NR-41897 was produced by inoculation of the depositor 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: 70049056 Manufacturing Date: 15DEC2021

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Biochemical characterization		
VITEK® 2 Compact (GN card)	K. pneumoniae (≥ 90%)	K. pneumoniae (99%) <sup>1</sup>
VITEK® MS (MALDI-TOF)	K. pneumoniae (≥ 90%)	K. pneumoniae (99%)
Antibiotic Susceptibility Profile <sup>2</sup> VITEK® (AST-GN81 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 (1 µg/mL)
Amikacin	Report results	Resistant (16 µg/mL)
Gentamicin	Report results	Resistant (≥ 16 µg/mL)
Ciprofloxacin	Report results	Resistant (≥ 4 µg/mL)
Nitrofurantoin	Report results	Resistant (≥ 512 µg/mL)
Etest® antibiotic test strips³		
Ceftriaxone	Report results	Resistant (≥ 256 µg/mL)
Tobramycin	Report results	Resistant (32 µg/mL)
Trimethoprim/sulfamethoxazole	Report results	Resistant (> 32 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.4% sequence identity to
(~ 1470 base pairs)	K. pneumoniae, strain BWH 2 (GenBank: JCNQ01000003.1)	K. pneumoniae, strain BWH 2 (GenBank: JCNQ01000003.1)
Purity	Growth consistent with expected	Growth consistent with expected
8 days at 37°C in an aerobic atmosphere with	colony morphology	colony morphology
and without CO₂ on Tryptic Soy agar and		
Tryptic Soy agar with 5% defibrinated sheep		

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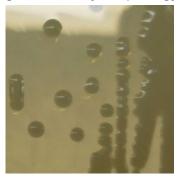


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TEST	SPECIFICATIONS	RESULTS
Viability 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth

<sup>&</sup>lt;sup>1</sup>Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. For additional information, please refer to O'Hara, C. M. and J. M. Miller. "Evaluation of the VITEK 2 ID-GNB Assay for Identification of Members of the Family Enterobacteriaceae and Other Nonenteric Gram-Negative Bacilli and Comparison with the VITEK GNI+ Card." J. Clin. Microbiol. 41 (2003): 2096-2101. PubMed: 12734254.

Figure 1: Colony Morphology



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11 JUL 2023

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<sup>&</sup>lt;sup>2</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>&</sup>lt;sup>3</sup>1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar