

Certificate of Analysis for NR-55521

Klebsiella pneumoniae, Strain MRSN 15882

Catalog No. NR-55521

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Product Description:

Klebsiella pneumoniae (K. pneumoniae), strain MRSN 15882 was isolated in 2012 from a human perianal sample in Europe as part of a global surveillance program. NR-55521 was deposited as a multidrug-resistant strain, sensitive to amikacin, aztreonam, cefepime, ceftazidime, ceftazidime/avibactam, ceftolozane/tazobactam, ceftriaxone, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tigecycline, tobramycin and trimethoprim/sulfamethoxazole and resistant to ampicillin/sulbactam and tetracycline. NR-55521 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: 70049640 Manufacturing Date: 02FEB2022

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TEST	SPECIFICATIONS	RESULTS		
Phenotypic Analysis				
Cellular morphology	Gram-negative rods	Gram-negative rods		
Colony morphology	Report results	Circular, convex, entire, smooth, mucoid and cream (Figure 1) Non-motile		
Motility (wet mount)	Report results			
VITEK® 2 (GN card)	K. pneumoniae (≥ 89%)	K. pneumoniae (99%)		
Antibiotic Susceptibility Profile ^{1,2}	N. priedmoniae (£ 6970)	N. priedmoniae (9970)		
Amikacin	Sensitive	Sanaitiva (< 2 ua/ml)		
		Sensitive (≤ 2 µg/mL)		
Ampicillin/sulbactam	Resistant	Sensitive (8 µg/mL) ³		
Aztreonam	Sensitive	Sensitive (≤ 1 µg/mL)		
Cefepime	Sensitive	Sensitive (≤ 1 μg/mL)		
Ceftazidime	Sensitive	Sensitive (≤ 1 μg/mL)		
Ceftazidime/avibactam	Sensitive	Sensitive (1.5 μg/mL)		
Ceftolozane/tazobactam	Sensitive	Sensitive (1.5 μg/mL)		
Ceftriaxone	Sensitive	Sensitive (≤ 1 µg/mL)		
Ciprofloxacin	Sensitive	Sensitive (0.19 to 0.25 µg/mL)		
Ertapenem	Sensitive	Sensitive (≤ 0.5 μg/mL)		
Gentamicin	Sensitive	Sensitive (≤ 1 μg/mL)		
Imipenem	Sensitive	Sensitive (0.25 µg/mL)		
Levofloxacin	Sensitive	Sensitive (1 µg/mL)		
Meropenem	Sensitive	Sensitive (≤ 0.25 µg/mL)		
Piperacillin/tazobactam	Sensitive	Sensitive (16 µg/mL)		
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)		
Tigecycline	Sensitive	Resistant (4 µg/mL) ^{4,5}		
Tobramycin	Sensitive	Sensitive (≤ 1 μg/mL)		
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 20 µg/mL)		
Genotypic Analysis		(1-3/		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to K. pneumoniae, strain MRSN 15882 (GenBank: JAGYEL010000098.1)	99.7% sequence identity to K. pneumoniae, strain MRSN 15882 (GenBank: JAGYEL010000098.1)		

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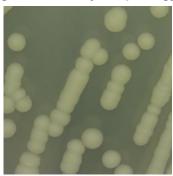


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TEST	SPECIFICATIONS		RESULTS	
Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar	Growth consistent with colony morphology	expected	Growth consistent with colony morphology	expected
Viability	Growth		Growth	

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

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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²Antibiotic susceptibility was tested using a combination of bioMérieux VITEK®2 GN74 and ETEST®.

³K. pneumoniae, strain MRSN 15882 was deposited as resistant to ampicillin/sulbactam, but showed a MIC of 8 μg per mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

⁴MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

⁵K. pneumoniae, strain MRSN 15882 was deposited as sensitive to tigecycline, but showed a MIC of 4 μg per mL (interpreted as resistant) for this antibiotic during QC testing. Testing was performed in duplicate.