b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-50391

Enterobacter cloacae complex, Strain BEI01

Catalog No. NR-50391

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

Product Description:

Enterobacter cloacae complex (*E. cloacae* complex), strain BEI01 is from an unknown origin. NR-50391 was produced by inoculation of BEI Resources seed lot 64391822 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: 70049055 **Manufacturing Date: 22DEC2021**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Gram-negative rods	Gram-negative rods
Colony morphology 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Report results	Circular, convex, entire, smooth, and cream (Figure 1)
Motility (wet mount)	Motile	Motile
Beta-lactamase[1]	Positive	Positive
Biochemical tests		
VITEK® 2 (GN card)	*E. cloacae* complex (≥ 89%)	*E. cloacae* complex (94%)
Antibiotic Susceptibility Profile[2]		
VITEK® (AST-GN84 Card)[3]		
Amoxicillin/Clavulanic Acid	Resistant	Resistant (≥ 32 µg/mL)
Aztreonam	Resistant	Resistant (≥ 64 µg/mL)
Cefazolin	Resistant	Resistant (≥ 64 µg/mL)
Cefepime	Sensitive	Intermediate (4 µg/mL)[4]
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Ertapenem	Resistant	Resistant (≥ 8 µg/mL)
Gentamicin	Resistant	Resistant (8 to 12 µg/mL)
Imipenem	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Resistant	Resistant (≥ 16 µg/mL)
Nitrofurantoin	Intermediate	Intermediate (64 µg/mL)
Piperacillin/Tazobactam	Resistant	Resistant (≥ 128 µg/mL)
Trimethoprim/Sulfamethoxazole	Sensitive	Sensitive (40 µg/mL)
Etest® antibiotic test strips 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar		
Ampicillin	Resistant	Resistant (≥ 256 µg/mL)
Gentamicin	Resistant	Resistant (8 to 12 µg/mL)
Tetracycline	Sensitive	Sensitive (4 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1370 base pairs)	≥ 99% sequence identity to *E. cloacae* complex type strain (Genbank: NR_118568.1)	99.8% sequence identity to *E. cloacae* complex type strain (Genbank: NR_118568.1)[5]

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TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth

[1] The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
[2] Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)
[3] No results were obtained for Extended-Spectrum Beta-Lactamases (ESBLs) and ampicillin from the VITEK® (AST-GN84 Card) analysis. Alternative methods of testing are recommended by the manufacturer.
[4] The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.
[5] Also consistent with other *Enterobacter* species

Figure 1: Colony Morphology

/Sonia Bjorum Brower/
Sonia Bjorum Brower 20 JUN 2023
Program Manager or designee, ATCC Federal Solutions

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.

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