

Enterobacter cloacae complex, Strain BEI07
Catalog No. NR-50397
Product Description: *Enterobacter cloacae* complex (*E. cloacae* complex), strain BEI07 is from an unknown origin.

Lot¹: 64391835
Manufacturing Date: 24FEB2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphologies ^{2,3} Motility (wet mount) Beta-lactamase ^{4,5} VITEK [®] 2 Compact (GN card)	Gram-negative rods Report results Report results Report results ≥ 90% probability of being <i>E. cloacae</i> complex	Gram-negative rods Colony type 1: Circular, low convex, entire, smooth, and gray (Figure 1) Colony type 2: Circular, low convex, entire, smooth, and white (Figure 1) Motile Positive <i>E. cloacae</i> complex (96% probability) ⁶
Antibiotic Susceptibility Profile⁵ VITEK [®] (AST-GN84 Card) ^{7,8} Amoxicillin/Clavulanic Acid Piperacillin/Tazobactam Cefazolin Ceftriaxone Cefepime Aztreonam Ertapenem Imipenem Meropenem Gentamicin Ciprofloxacin Levofloxacin Tetracycline Nitrofurantoin Trimethoprim/Sulfamethoxazole Etest [®] antibiotic test strips ⁹ Ampicillin ¹⁰	Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report Results Report results	Resistant (≥ 32 µg/mL) Resistant (≥ 128 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Intermediate (= 16 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 8 µg/mL) Resistant (= 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 8 µg/mL) Intermediate (= 8 µg/mL) Intermediate (= 64 µg/mL) Sensitive (≤ 20 µg/mL) Resistant (≥ 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to <i>E. cloacae</i> complex type strain (Genbank: NR_118568.1)	≥ 99% sequence identity to <i>E. cloacae</i> complex type strain (Genbank: NR_118568.1) ¹¹
Purity (post-freeze)¹²	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-50397 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.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar

³Two colony types were observed. Plating of the individual colony types showed that they did not revert to the mixed colony type. The 16S ribosomal RNA gene of each colony type was sequenced and found to have a ≥ 99% sequence identity to the other colony type and to the *E. cloacae* complex type strain (Genbank: NR_118568.1). VITEK[®] 2 Compact (GN card) analysis identified cells from both colony types as *E. cloacae* complex.

⁴The production of beta-lactamase was detected using a Cefinase[™] Paper Disc (BBL[™] 231650).

⁵Testing was performed using a mixed colony suspension.

⁶Percent 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.

⁷Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁸No results were obtained for ampicillin, ampicillin/sulbactam and Extended-Spectrum Beta-Lactamases (ESBLs) from the VITEK® (AST-GN84 Card) analysis. Alternative methods of testing are recommended by the manufacturer.

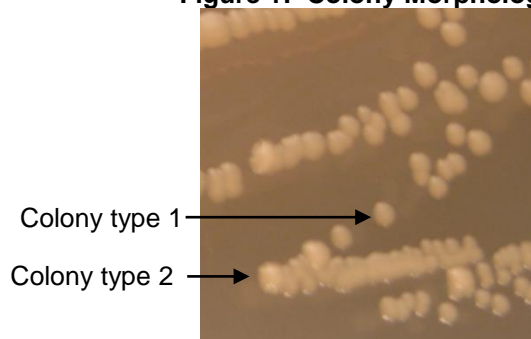
⁹1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

¹⁰For ampicillin (bioMérieux Etest® 412252) a MIC ≤ 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate and a MIC ≥ 32 µg/mL is resistant.

¹¹Also consistent with other *Enterobacter* species

¹²Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 01 SEP 2016

Signature:

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