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SUPPORTING INFECTIOUS DISEASE RESEARCH

Enterobacter cloacae complex, Strain BEI07

Catalog No. NR-50397

For research use only. Not for human use.

Contributor and Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterobacteriaceae, Enterobacter Species: Enterobacter cloacae complex Strain: BEI07

<u>Original Source</u>: *Enterobacter cloacae* complex (*E. cloacae* complex), strain BEI07 is from an unknown origin.

Species of the E. cloacae complex are Gram-negative, rodshaped, facultatively-anaerobic opportunistic bacteria that are a commensal inhabitant of the human gastrointestinal tract.^{1,2} The *E. cloacae* complex nomenclature is mainly based on whole genome DNA-DNA hybridizations and phenotypic characterization.^{3,4} The *E. cloacae* complex includes six species (E. asburiae, E. cloacae, E. hormaechei, E. kobei, E. ludwigii and E. nimipressuralis) and currently only Enterobacter isolates that belong to the E. cloacae complex are considered of clinical significance and are isolated as nosocomial pathogens.^{1,3,5} increasingly Carbapenem resistance is attributed to a natural expression of a chromosomal AmpC β-lactamase type cephalosporinase in addition to horizontal gene transfer of carbapenemaseencoding genes between Enterobacteriaceae isolates.6,7

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-50397 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

Tryptic Soy broth or Nutrient broth or equivalent

Tryptic Soy agar or Nutrient agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation: Temperature: 37°C Atmosphere: Aerobic Propagation:

1. Keep vial frozen until ready for use, then thaw.

- 2. Transfer the entire thawed aliquot into a single tube of broth.
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tube, slant and/or plate at 37°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Enterobacter cloacae* complex, Strain BEI07, NR-50397."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see <u>www.cdc.gov/biosafety/publications/bmbl5/index.htm</u>.

Disclaimers:

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