Acinetobacter baumannii, Strain BC-5

Catalog No. NR-17783

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Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Moraxellaceae, Acinetobacter
Species: Acinetobacter baumannii
Strain: BC-5

Original Source: Acinetobacter baumannii (A. baumannii), strain BC-5 was isolated in 2007 from a nosocomial spread of war-related multi-drug resistant A. baumannii in a civilian hospital in British Columbia, Canada. The infection originated from a soldier who was evacuated from Landstuhl Regional Medical Center in Landstuhl, Germany.1

Comments: A. baumannii, strain BC-5 is reported to be a multidrug resistant strain and is part of the “Genomic Sequencing of a Diversity of US Military Acinetobacter baumannii-calcoaceticus Complex Isolates” project to sequence the genomes of clinical and environmental isolates of medically relevant Acinetobacter spp.2 The complete genome of A. baumannii, strain BC-5 was sequenced at the J. Craig Venter Institute (GenBank: AFDN00000000).

A. baumannii is an aerobic, Gram-negative bacillus that exhibits the ability to rapidly develop antibiotic resistance and is a major cause of hospital-acquired infection.3 The genomes of multidrug resistant strains of A. baumannii contain resistance “islands” that can contain up to 45 resistance genes. Acquisition of these antibiotic resistance genes occurs through genetic exchange of plasmids, transposons and integrons with Pseudomonas, Salmonella and Escherichia species.4,5

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Nutrient broth supplemented with 10% glycerol.

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

Packaging/Storage:
NR-17783 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 Brain Heart Infusion broth or equivalent
Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Nutrient agar 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: Acinetobacter baumannii, Strain BC-5, NR-17783.”

Biosafety Level: 2

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References:

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