

Product Information Sheet for NR-56560

Acinetobacter baumannii, Strain 1103521

Catalog No. NR-56560

For research use only. Not for use in humans.

Contributor and Manufacturer:

ATCC®

Product Description:

Bacteria Classification: Moraxellaceae, Acinetobacter

Species: Acinetobacter baumannii

Strain: 1103521

<u>Original Source</u>: Acinetobacter baumannii (A. baumannii), strain 1103521 was isolated in 2014 from an endotracheal aspirate sample of a 36-year-old female in Venezuela.

<u>Comments</u>: A. baumannii, strain 1103521 was deposited as part of the Global Priority Superbugs Collection. NR-56560 was deposited as resistant to cefepime, ceftazidime, ceftriaxone, ciprofloxacin, doripenem, imipenem, levofloxacin, meropenem, piperacillin/tazobactam and tetracycline.

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. 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. 2.3

Material Provided:

Each vial contains approximately 0.3 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-56560 was packaged aseptically in 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:

Nutrient broth or Tryptic Soy broth or equivalent

Nutrient agar or Tryptic Soy 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.
- 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 1103521, NR-56560."

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. Biosafety in Microbiological and Biomedical Laboratories (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

 Howard, A., et al. "Acinetobacter baumannii: An Emerging Opportunistic Pathogen." <u>Virulence</u> 3 (2012): 243-250. PubMed: 22546906.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370
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- Fournier, P. E., et al. "Comparative Genomics of Multidrug Resistance in *Acinetobacter baumannii*." <u>PLoS Genet.</u> 2 (2006): e7. PubMed: 16415984.
- İmperi, F., et al. "The Genomics of Acinetobacter baumannii: Insights into Genome Plasticity, Antimicrobial Resistance and Pathogenicity." <u>IUBMB Life</u> 63 (2011): 1068-1074. PubMed: 22034231.

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Tel: 800-359-7370

Fax: 703-365-2898