

Genomic DNA from *Acinetobacter baumannii*, Isolate 3

Catalog No. NR-13513

For research use only. Not for human use.

Contributor:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Product Description:

Genomic DNA was obtained from a preparation of *Acinetobacter baumannii* (*A. baumannii*) that was isolated from human sputum (induced) in 2008.

A. baumannii is a Gram-negative bacterium 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.^{1,2}

NR-13513 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA.

Material Provided:

Each vial contains 4 to 6 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-13513 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Acinetobacter baumannii*, Isolate 3, NR-13513."

Biosafety Level: 1

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see

www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. Tien, H. C., et al. "Multi-Drug Resistant *Acinetobacter* Infections in Critically Injured Canadian Forces Soldiers." BMC Infect. Dis. 7 (2007): 95. PubMed: 17697345.
2. Fournier, P. E., et al. "Comparative Genomics of Multidrug Resistance in *Acinetobacter baumannii*." PLoS Genet. 2 (2006): e7. PubMed: 16415984.

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