

Product Information Sheet for NR-2645

SUPPORTING INFECTIOUS DISEASE RESEARCH

Genomic DNA from *Yersinia pestis*, Strain KIM10+

Catalog No. NR-2645

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For research use only. Not for human use.

Contributor:

Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, Colorado, USA

Manufacturer:

BEI Resources

Product Description:

NR-2645 contains genomic DNA extracted from a preparation of *Yersinia pestis* (*Y. pestis*), strain KIM10+, biovar Medievalis. Strain KIM10+ was deposited as sensitive to chloramphenicol, ciprofloxacin, gentamicin, tetracycline, trimethoprim/sulfamethoxazole and streptomycin.¹

Y. pestis KIM10+ is an irreversibly attenuated strain that was derived from the KIM strain. KIM10+ lacks the pCD1 plasmid that is essential for virulence as well as the pPCP1 plasmid. It contains the pMT1 plasmid and the chromosomal virulence-associated locus pgm. The complete sequence of the chromosome (GenBank: NC_004088) and pMT1 (GenBank: NC_004838) from Y. pestis strain KIM10+ have been determined.

The presence of the pMT1 plasmid in NR-2645 has been confirmed by PCR amplification of plasmid specific virulence markers. NR-2645 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:

Each vial of NR-2645 contains 0.7 μg to 1.5 μg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH \sim 8). Each vial of NR-2645 lot 5107311 contains approximately 5 μg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH \sim 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-2645 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen 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 BEI Resources, NIAID, NIH: Genomic DNA from *Yersinia pestis*, Strain KIM10+, NR-2645."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

- 1. CDC, Personal Communication.
- Deng, W., et al. "Genome Sequence of Yersinia pestis KIM." J. Bacteriol. 184 (2002): 4601–4611. PubMed: 12142430. GenBank: NC_004088.

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BEI Resources
www.beiresources.ora

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898