



Genomic DNA from *Yersinia pestis* strain Kim

BAA-1611D-5™

Description

Genomic DNA isolated from *Yersinia pestis* ATCC® BAA-1611™ Strain Kim. This strain is not available for distribution.

Organism: *Yersinia pestis*

Genome sequenced strain: Yes

Type strain: No

Mass: 5 µg

Shipping information: Shipped on dry ice

Storage Conditions

Product format: Frozen

Storage conditions: -20°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies

and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Handling Procedures

1. Thaw the vial at room temperature and immediately place on ice. Avoid exposing the DNA to repeated freeze-thaw cycles as it may result in degradation of the DNA.
 2. Gently mix the sample to ensure an even distribution of material.
 3. Briefly centrifuge the tube before opening to ensure all liquid is at the bottom.
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Quality Control Specifications

Electrophoresis - RNA content: No RNA was detected by electrophoresis

Purity (A260/A280): 1.6 to 2.0

Integrity: Integrity of DNA was determined by electrophoresis on a 1% agarose gel stained with ethidium bromide, and was found to be intact and of high molecular weight.

Functional tests: Functional activity was confirmed by PCR amplification of the 16S ribosomal RNA gene.

Identity: Identity confirmed by sequencing of 16S ribosomal RNA gene (first ~500 base pairs).

Notes

Genomic DNA isolated from bacteria is appropriate for PCR and other molecular

biology applications.

The *Y. pestis* plasmids are known as: 1) pMT1, which encodes a murine toxin and capsular protein with anti-phagocytic activities, 2) pCD1, which encodes a type III secretion system and is essential for virulence and 3) pPCP1, which encodes a protease that facilitates the initial dissemination of the bacteria to the lymph nodes.

² Virulence factors on the chromosome are located in an unstable locus, *pgm*.¹

The presence of pMT1 and the absence of pCD1 and pPCP1 in BAA-1611D-5 have been confirmed by PCR amplification of plasmid-specific sequences from extracted DNA.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Genomic DNA from *Yersinia pestis* strain Kim (ATCC BAA-1611D-5)

References

References and other information relating to this material are available at www.atcc.org.

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