

Genomic DNA from *Yersinia pestis*, Strain PB6

Catalog No. NR-2718

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Product Description: Genomic DNA was isolated from a preparation of *Yersinia pestis*, strain PB6.

Lot¹: 7398289

Manufacturing Date: 31MAY2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 520 base pairs)	Identical to source organism Consistent with <i>Yersinia pestis</i>	Identical to source organism Consistent with <i>Yersinia pestis</i> ²
Presence of Plasmid Confirmed by PCR Amplification 70 kb plasmid	Confirmed	Confirmed
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	4 to 6 µg in 25 to 100 µL per vial	5.5 µg in 41 µL per vial (133 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence marker on plasmid 70 kb plasmid	~ 1500 bp amplicon ~ 1900 bp amplicon	~ 1500 bp amplicon ~ 1900 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on agar; limit of detection is 0.2 colony-forming units per vial	No viable bacteria detected	No viable bacteria detected

¹*Y. pestis*, strain PB6 was deposited by the Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, Colorado. The deposited material was prepared by culture of a single colony isolated from the CDC Reference Collection stock. The bacterial preparation used for extraction of genomic DNA was produced from the CDC deposited material (not NR-638 as the label suggests). Genomic DNA was extracted using proprietary technology.

²Also consistent other *Yersinia* species

Date: 24 MAY 2012

Signature:



Title:

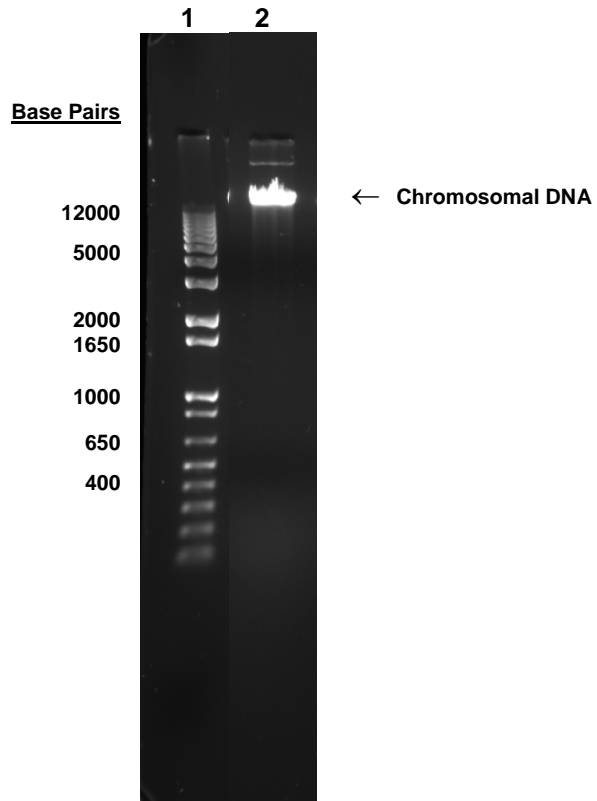
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You are authorized to use this product for research use only. It is not intended for human use.

Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-2718