

Genomic DNA from *Yersinia pestis*, Strain PEXU2

Catalog No. NR-2716

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Product Description: Genomic DNA was isolated from a preparation of *Yersinia pestis*, strain PEXU2.

Lot¹: 7398287

Manufacturing Date: 10MAR2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1430 base pairs)	Identical to source organism Identical to GenBank AF282306 Consistent with <i>Yersinia pestis</i>	Identical to source organism Identical to GenBank AF282306 Consistent with <i>Yersinia pestis</i> ²
Presence of Plasmids Confirmed by PCR Amplification 110 kb plasmid 70 kb plasmid 9.5 kb plasmid	Confirmed Confirmed Confirmed	Confirmed 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	6.0 µg in 42 µL per vial (142 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers on plasmids 110 kb plasmid 70 kb plasmid 9.5 kb plasmid	~ 1500 bp amplicon ~ 1200 bp amplicon ~ 1900 bp amplicon ~ 400 bp amplicon	~ 1500 bp amplicon ~ 1200 bp amplicon ~ 1900 bp amplicon ~ 400 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.8
Bacterial Inactivation ~ 10% of total yield plated on agar; limit of detection is 0.4 colony-forming units per vial	No viable bacteria detected	No viable bacteria detected

¹*Y. pestis*, strain PEXU2 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-637 as the label suggests). Genomic DNA was extracted using proprietary technology.

²Also consistent other *Yersinia* species

Date: 24 MAY 2012

Signature:



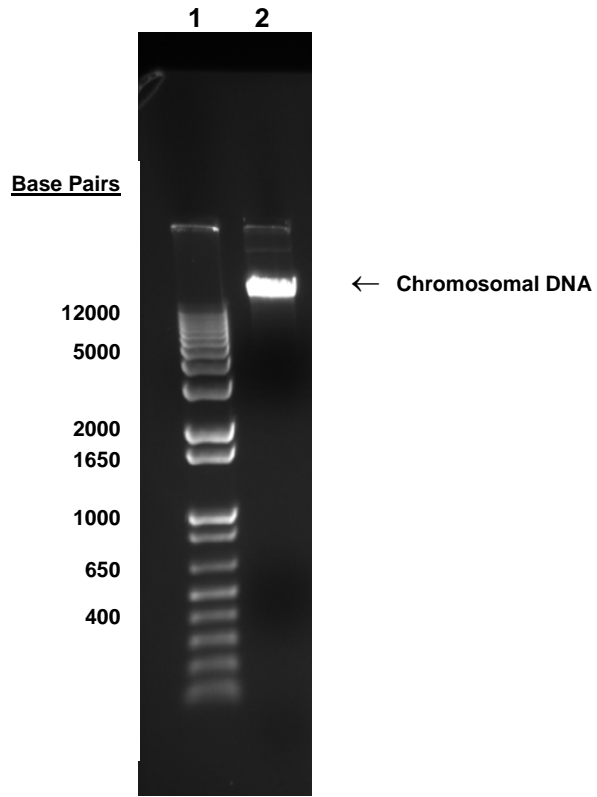
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You are authorized to use this product for research use only. It is not intended for human use.

Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-2716