

**Genomic DNA from *Yersinia pestis*, Strain A1122**

**Catalog No. NR-3040**

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**Product Description:** Genomic DNA was isolated from a preparation of *Yersinia pestis*, strain A1122.

**Lot<sup>1</sup>: 7549549**

**Manufacturing Date: 31MAY2006**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene (~ 1400 base pairs)</b>	Identical to source organism Consistent with <i>Yersinia pestis</i>	Identical to source organism Consistent with <i>Yersinia pestis</i> <sup>2</sup>
<b>Presence of Plasmids Confirmed by PCR Amplification</b> 110 kb plasmid 9.5 kb plasmid	Confirmed Confirmed	Confirmed Confirmed
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen<sup>®</sup> Measurement</b>	4 to 6 µg in 25 to 100 µL per vial	5.1 µg in 28 µL per vial (180 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene Virulence markers on plasmids 110 kb plasmid 9.5 kb plasmid	~ 1500 bp amplicon  ~ 1200 bp amplicon ~ 400 bp amplicon	~ 1500 bp amplicon  ~ 1200 bp amplicon ~ 400 bp amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 1.9	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on agar; limit of detection is 0.3 colony-forming units per vial	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>*Y. pestis*, strain A1122 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-636 as the label suggests). Genomic DNA was extracted using proprietary technology.

<sup>2</sup>Also consistent other *Yersinia* species

**Date:** 24 MAY 2012

**Signature:**



**Title:**

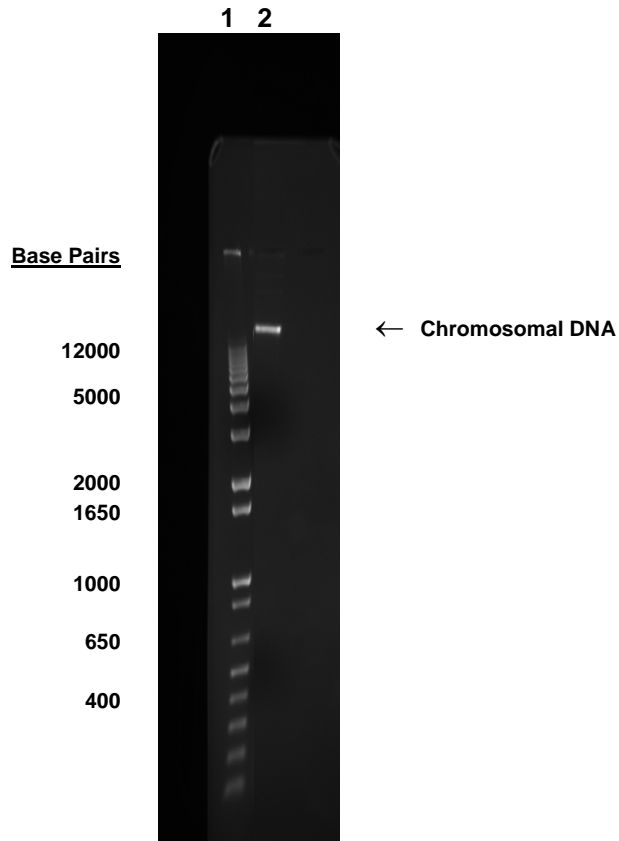
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You are authorized to use this product for research use only. It is not intended for human use.

Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: 200 ng of NR-3040