

**Genomic DNA from *Yersinia pestis*, Strain CO92**

**Catalog No. NR-2717**

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**Product Description:** Genomic DNA was isolated from a preparation of *Yersinia pestis* (*Y. pestis*), strain CO92.

**Lot<sup>1</sup>: 59176099**

**Manufacturing Date: 25JAN2011**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene (~ 690 base pairs)</b>	Consistent with <i>Y. pestis</i>	Consistent with <i>Y. pestis</i> <sup>2</sup>
<b>Presence of Plasmids Confirmed by PCR Amplification</b> 110 kb (pMT1) plasmid 70 kb (pCD1) plasmid 9.5 kb (pPCP1) plasmid	Positive Positive Positive	Positive Positive Positive
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen® Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 44 µL per vial (25 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene <i>Y. pestis</i> specific chromosomal region Virulence markers on plasmid 110 kb (pMT1) plasmid 70 kb (pCD1) plasmid 9.5 kb (pPCP1) plasmid	~ 1500 bp amplicon ~ 800 bp amplicon  ~ 1200 bp amplicon ~ 1900 bp amplicon ~ 400 bp amplicon	~ 1500 bp amplicon ~ 800 bp amplicon  ~ 1200 bp amplicon ~ 1900 bp amplicon ~ 400 bp amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.0	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on agar <sup>3</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>The bacterial preparation used for extraction of genomic DNA was produced by propagation of NR-641 (Lot: 4464636). Genomic DNA was extracted using proprietary technology.

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

<sup>3</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

**Date:** 20 JUL 2012

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

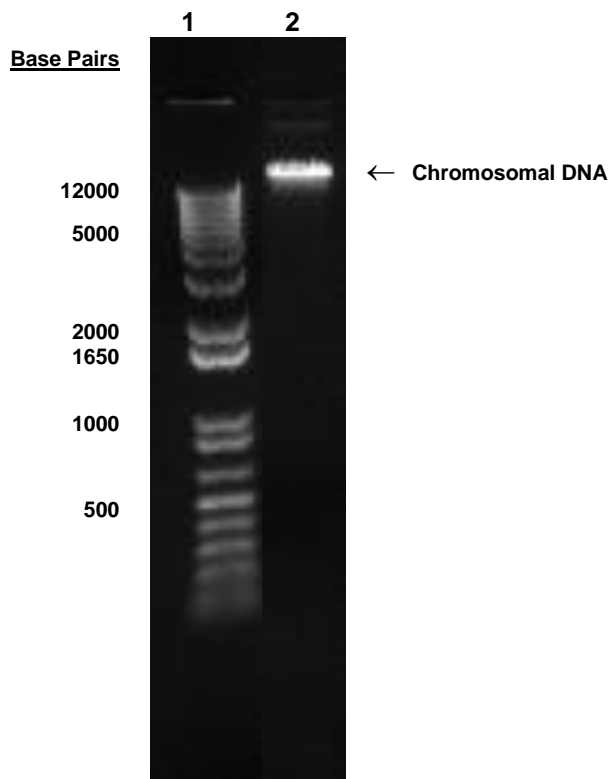
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Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: 200 ng of NR-2717