

Genomic DNA from *Yersinia pestis*, Strain ZE94-2122

Catalog No. NR-2715

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Product Description: Genomic DNA was isolated from a preparation of *Yersinia pestis* (*Y. pestis*), strain ZE94-2122.

Lot¹: 59109703

Manufacturing Date: 25JAN2011

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 740 base pairs)	Consistent with <i>Y. pestis</i>	Consistent with <i>Y. pestis</i> ²
Presence of Plasmids Confirmed by PCR Amplification 110 kb (pMT1) plasmid 70 kb (pCD1) plasmid 9.5 kb (pPCP1) plasmid	Positive Positive Positive	Positive Positive Positive
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 44 µL per vial (26 µg/mL)
Functional Activity by PCR Amplification 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
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.0	1.9
Bacterial Inactivation 10% of total yield plated on agar ³	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by propagation of NR-635 (Lot: 4431711). Genomic DNA was extracted using proprietary technology.

²Also consistent *Yersinia* species

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

Date: 19 JUN 2012

Signature:



Title:

Technical Manager, BEI Authentication or designee

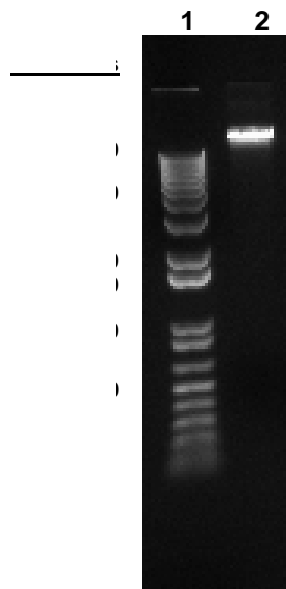
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Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-2715