

Genomic DNA from *Yersinia pestis*, Strain KIM10+

Catalog No. NR-2645

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Product Description: Genomic DNA was isolated from a preparation of *Yersinia pestis*, strain KIM10+.

Lot¹: 5107311

Manufacturing Date: 20APR2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 490 base pairs)	Identical to source organism Consistent with <i>Yersinia pestis</i> Identical to GenBank NC_004088	Identical to source organism Consistent with <i>Yersinia pestis</i> ² Identical to GenBank NC_004088
Presence of Plasmid Confirmed by PCR Amplification 110 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	5.3 µg in 48 µL per vial (110 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence marker on plasmid 110 kb plasmid	~ 1500 bp amplicon ~ 1200 bp amplicon	~ 1500 bp amplicon ~ 1200 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Nutrient Agar (BD 213000) and incubated for 7 days at 37°C and aerobic atmosphere; limit of detection is 0.3 colony-forming units per vial	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-642 on Trypticase Soy Agar. After incubation for 26 hours at 37°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

²Also consistent other *Yersinia* species.

Date: 31 AUG 2006

Signature: Signature on File

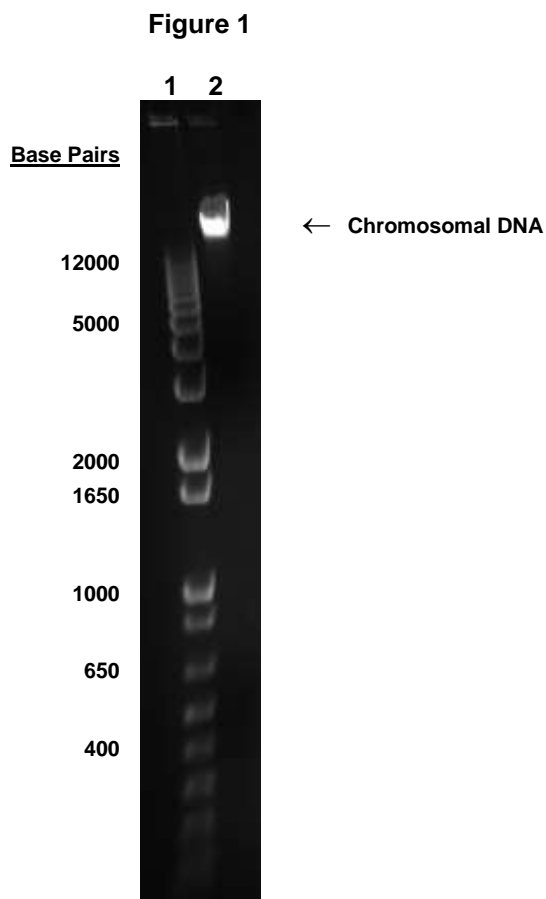
Title: Technical Manager, BEI Authentication

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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-2645