

Genomic DNA from *Yersinia pestis*, Strain A1122

Catalog No. NR-2644

Product Description:

Genomic DNA was extracted from a preparation of *Yersinia pestis* (*Y. pestis*), strain A1122. *Y. pestis*, strain A1122 was isolated from a California ground squirrel (*Spermophilus beecheyi*) in California in 1939.

Lot: 70027750¹

Manufacturing Date: 19AUG2019

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>Y. pestis</i> , strain A1122 (GenBank: CP002956.1)	100% sequence identity to <i>Y. pestis</i> , strain A1122 (GenBank: CP002956.1)
Presence of Plasmids Confirmed by PCR Amplification² pMT1/pFra pPCP1/pPla/pPst	~ 1200 base pair amplicon ~ 400 base pair amplicon	~ 1200 base pair amplicon ~ 400 base pair amplicon
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	1.0 µg in 25 µL per vial (40 µg/mL)
Amount per vial	0.7 to 1.5 µg	1.0 µg
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.9
Bacterial Inactivation 10% of total yield plated on agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

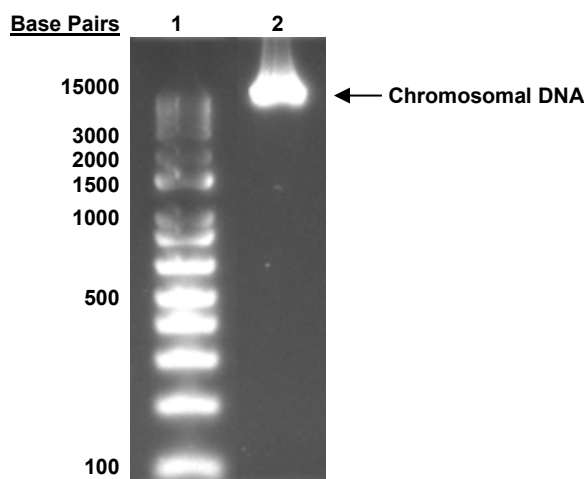
¹The bacterial preparation used for extraction of genomic DNA was produced from a culture of NR-15 lot 3776770. Genomic DNA was extracted using proprietary technology.

²Plasmid results obtained from NR-2644 lot 5107283

³14 days at 37°C in an aerobic atmosphere on Tryptic Soy agar

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-2644

/Heather Couch/
Heather Couch

Program Manager or designee, ATCC Federal Solutions

25 SEP 2019

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