

Internal Control DNA for *Yersinia pestis* Plasmid Detection Kit

Catalog No. NR-9551

This reagent is the tangible property of the U.S. Government.

Product Description: NR-9551 contains linearized, purified plasmid DNA designed to serve as an internal control for the primer sets included in the *Yersinia pestis* (*Y. pestis*) Plasmid Detection Kit (BEI Resources NR-9562). PCR amplification of NR-9551 using each of the primer sets in NR- 9562 (available individually as NR-9686 through NR-9689) will result in a band of approximately 130 base pairs.

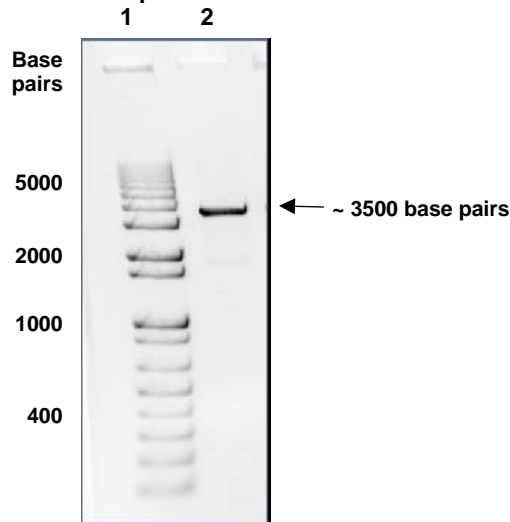
Lot¹: 58133769

Manufacturing Date: 14JAN2008

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis of Linearized Plasmid DNA¹ (Figure 1)	~ 3,500 base pairs	~ 3,500 base pairs
PCR Amplification Using Primer Sets (Figure 2) pPCP1 (NR-9686) pMT1 (NR-9687) pCD1 (NR-9688) <i>Yersinia pestis</i> (NR-9689)	~ 130 base pairs ~ 130 base pairs ~ 130 base pairs ~ 130 base pairs	~ 130 base pairs ~ 130 base pairs ~ 130 base pairs ~ 130 base pairs
DNA Concentration by PicoGreen[®] Measurement	Report results	~ 1 µg/mL

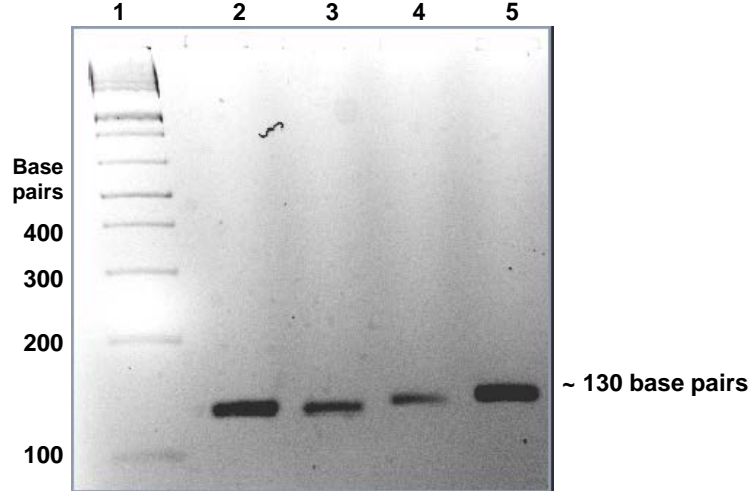
¹Plasmid DNA was extracted using a HiSpeed Plasmid Midi Kit (QIAGEN 12643). Purified plasmid DNA was linearized with *Bgl*/II (New England BioLabs, Inc. R0144S).

Figure 1: Agarose Gel Electrophoresis of Linearized Plasmid DNA



Lane 1: Invitrogen™ 1 kb DNA ladder
Lane 2: NR-9551

Figure 2: PCR Amplification Using Primer Sets



Lane 1: Invitrogen™ 1 kb DNA ladder
 Lane 2: pMT1 primers from *Y. pestis* detection kit
 Lane 3: pCD1 primers from *Y. pestis* detection kit
 Lane 4: pPCP1 primers from *Y. pestis* detection kit
 Lane 5: *Yersinia pestis* primers from *Y. pestis* detection kit

/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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