

## Product Information Sheet for NR-9687

### ***Yersinia pestis* pMT1 Primer Set**

#### **Catalog No. NR-9687**

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

#### **For research use only. Not for human use.**

#### **Contributor:**

BEI Resources

#### **Manufacturer:**

Integrated DNA Technologies, Inc.

#### **Product Description:**

NR-9687 contains forward and reverse primers that specifically amplify a 1200 nucleotide sequence from *Yersinia pestis* (*Y. pestis*) virulence plasmid pMT1. The specificity of the primers for pMT1 has been confirmed using a genomic DNA panel from eight *Y. pestis* with known plasmid profiles (BEI Resources NR-2715, NR-2716, NR-2717, NR-2718, NR-2719, NR-2720, NR-2644 and NR-2645). Genomic DNA from twenty-five *Yersinia* organisms that contain no plasmids, two *Francisella* organisms and one *Escherichia coli* organism were used as negative controls for specificity. The identity of the amplicon obtained from NR-2715 with this primer set has been verified by nucleotide sequencing.

A *Yersinia pestis* Plasmid Detection Kit containing primer sets and an internal control DNA for the detection of *Y. pestis* organisms and *Y. pestis* plasmids pPCP1, pMT1 and pCD1 is available as BEI Resources NR-9562.

Additional information pertaining to the use of these primers may be found in the appendix to the NR-9562 Product Information Sheet. Successful use of this primer set necessarily depends on third party reagents. Please be advised that BEI Resources has observed considerable variation in the performance of polymerases and buffers obtained from different suppliers, and even among different lots of these reagents obtained from the same supplier. It is therefore critically important that users confirm effective assay performance in their own laboratories using the appropriate control templates.

#### **Material Provided:**

Each vial contains approximately 400 µL of a mixture of forward and reverse primers in TE buffer (pH 7.0). The concentration is shown on the Certificate of Analysis.

#### **Packaging/Storage:**

Primers were packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder upon arrival. Freeze-thaw cycles should be minimized.

#### **Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Yersinia pestis* pMT1 Primer Set, NR-9687."

#### **Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

#### **Disclaimers:**

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