

**Genomic DNA from *Yersinia pseudotuberculosis*, Strain IP2790****Catalog No. NR-4650**

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**Product Description:** Genomic DNA was isolated from a preparation of *Yersinia pseudotuberculosis* (*Y. pseudotuberculosis*), strain IP2790. The presence of the virulence plasmid pLB1/pYV in this strain was confirmed by low Ca<sup>2+</sup> response prior to deposition.

**Lot<sup>1</sup>: 57852118****Manufacturing Date: 21AUG2007**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene</b> (~ 1465 base pairs)	Consistent with <i>Y. pseudotuberculosis</i>	Consistent with <i>Y. pseudotuberculosis</i> <sup>2</sup>
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen® Measurement</b>	4 to 6 µg in 25 to 100 µL per vial	5.6 µg in 41 µL per vial (137 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 1.9	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on Tryptic Soy Agar <sup>3,4</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>*Y. pseudotuberculosis*, strain IP2790 was deposited by James B. Bliska, Associate Professor from the Department of Molecular Genetics and Microbiology, Center for Infectious Diseases, State University of New York at Stony Brook, Stony Brook, New York. The bacterial preparation used for extraction of genomic DNA was produced by culture of the deposited material on Tryptic Soy Agar. After incubation for 24 hours at 28°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

<sup>2</sup>Also consistent with other *Yersinia* species.

<sup>3</sup>7 days at 37°C in an aerobic atmosphere.

<sup>4</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

**Date:** 09 JAN 2008**Signature:** Signature on File**Title:** Technical Manager, BEI Authentication or designee

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