

Genomic DNA from *Yersinia pseudotuberculosis*, Strain IP2775

Catalog No. NR-4651

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Product Description: Genomic DNA was isolated from a preparation of *Yersinia pseudotuberculosis* (*Y. pseudotuberculosis*), strain IP2775. The presence of the virulence plasmid pIB1/pYV in this strain was confirmed by low Ca²⁺ response prior to deposition.

Lot¹: 57988652

Manufacturing Date: 06NOV2007

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1420 base pairs)	Consistent with <i>Y. pseudotuberculosis</i>	Consistent with <i>Y. pseudotuberculosis</i> ²
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	5.5 µg in 51 µL per vial (107 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

¹*Y. pseudotuberculosis*, strain IP2775 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.

²Also consistent with other *Yersinia* species.

³7 days at 28°C in an aerobic atmosphere.

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

Date: 27 FEB 2008

Signature: Signature on File

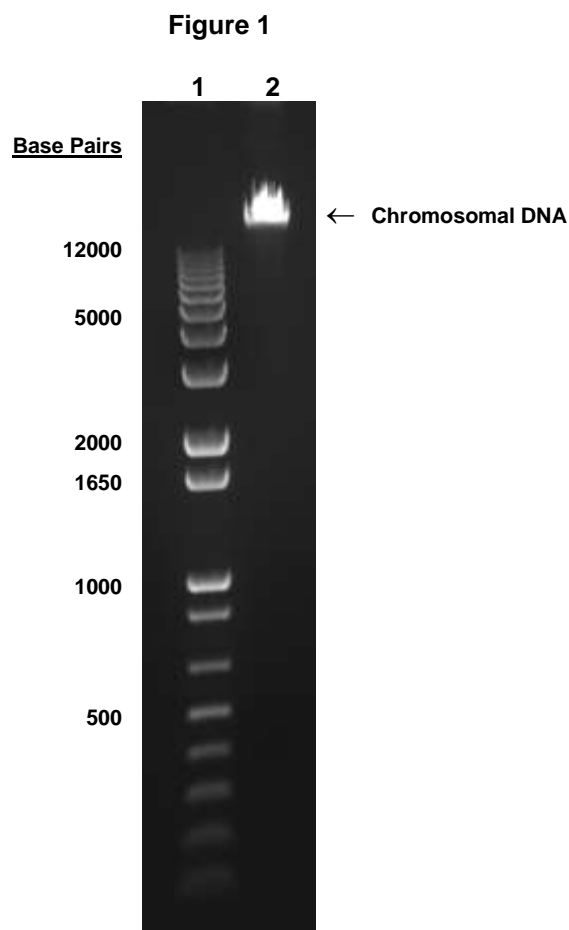
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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-4651