

Certificate of Analysis for NR-4650

Genomic DNA from Yersinia pseudotuberculosis, Strain IP2790

Catalog No. NR-4650

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

Product Description: Genomic DNA was isolated from a preparation of *Yersinia* pseudotuberculosis (*Y. pseudotuberculosis*), strain IP2790. The presence of the virulence plasmid pIB1/pYV in this strain was confirmed by low Ca²⁺ response prior to deposition.

Lot¹: 57852118 Manufacturing Date: 21AUG2007

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1465 base pairs)	Consistent with Y. pseudotuberculosis	Consistent with Y. pseudotuberculosis 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	5.6 μg in 41 μL per vial (137 μg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD ₂₆₀ /OD ₂₈₀ 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

¹Y. 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.

Date: 09 JAN 2008 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

Biodefense and Emerging Infections Research Resources Repository P.O. Box 4137

Fax: 703-365-2898

E-mail: contact@beiresources.org

800-359-7370

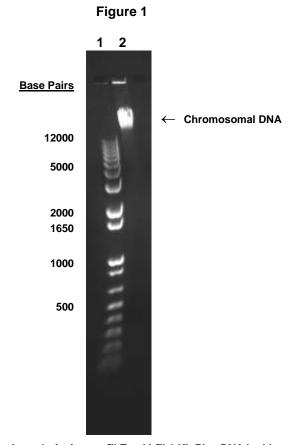
²Also consistent with other *Yersinia* species.

³7 days at 37°C in an aerobic atmosphere.

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



Certificate of Analysis for NR-4650



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: 200 ng of NR-4650

800-359-7370