

Certificate of Analysis for NR-4712

Genomic DNA from Yersinia pestis, Strain A12 Derivative 5 (D5)

Catalog No. NR-4712

Product Description: Genomic DNA was isolated from a preparation of *Yersinia pestis* (*Y. pestis*), strain A12 derivative 5 (D5).

Lot¹: 57899740 Manufacturing Date: 28JAN2008

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1390 bp)	Identical to BEI Resources NR-4688 Consistent with <i>Y. pestis</i>	Identical to BEI Resources NR-4688 Consistent with <i>Y. pestis</i> ²
Presence of Plasmids Confirmed by PCR Amplification pMT1 (pFra; ~ 100 kb plasmid) pCD1 (pYV; ~ 70 kb plasmid) pPCP1 (pPla; ~ 9.5 kb plasmid)	Positive Negative Negative	Positive Negative Negative
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	5.0 μg in 35 μL per vial (144 μg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence-associated plasmids pMT1 (pFra; ~ 100 kb plasmid) pCD1 (pYV; ~ 70 kb plasmid) pPCP1 (pPla; ~ 9.5 kb plasmid)	~ 1500 bp amplicon ~ 1200 bp amplicon None detected None detected	~ 1500 bp amplicon ~ 1200 bp amplicon None detected None detected
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. pestis, strain A12(D5) was deposited by Professor Robert R. Brubaker of the Department of Microbiology and Molecular Genetics at Michigan State University, East Lansing, Michigan. The bacterial preparation used for extraction of genomic DNA was produced by broth (Tryptic Soy Broth; BD 211768) culture of the deposited material. After incubation for 48 hours at 28°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

Date: 13 AUG 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.

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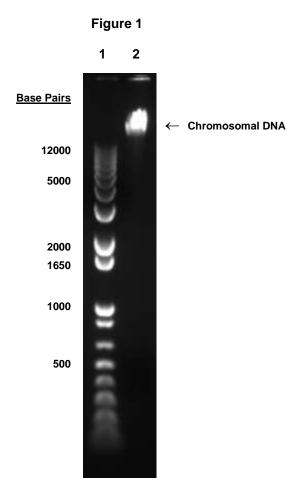
²Also consistent with other Yersinia species

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.



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

Lane 2: 200 ng of NR-4712

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