

## **Certificate of Analysis for NR-4640**

## Genomic DNA from Escherichia coli, Strain MDL 3562

## Catalog No. NR-4640

**Product Description:** Genomic DNA was isolated from a preparation of *Escherichia coli*, strain MDL 3562, serotype O157:H7. This strain was isolated in California in 2006 due to an outbreak linked to spinach consumption.

Lot<sup>1</sup>: 57938640 Manufacturing Date: 18OCT2007

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1290 bp)	Consistent with Escherichia coli	Consistent with Escherichia coli <sup>2</sup>
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	5.7 μg in 41 μL per vial (140 μg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD <sub>260</sub> /OD <sub>280</sub> Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar <sup>3,4</sup>	No viable bacteria detected	No viable bacteria detected

<sup>&</sup>lt;sup>1</sup>The bacterial preparation used for extraction of genomic DNA was produced by inoculation of the deposited material into Tryptic Soy Broth. After incubation for 24 hours at 37°C, genomic DNA was extracted using proprietary technology.

**Date:** 27 FEB 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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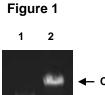
<sup>&</sup>lt;sup>2</sup>Also consistent with *Shigella* species.

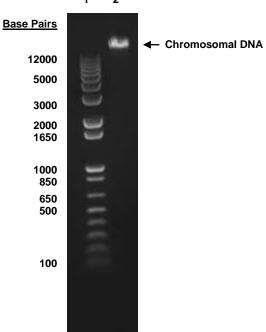
<sup>&</sup>lt;sup>3</sup>7 days at 37°C in an aerobic atmosphere.

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



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Lane 1: Invitrogen™ 1Kb Plus DNA Ladder™ Lane 2: 200 ng of NR-4640

800-359-7370

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