

## **Certificate of Analysis for NR-2650**

## Genomic DNA from Escherichia coli, Strain H414-36/89

Catalog No. NR-2650

**Product Description:** Genomic DNA was isolated from a preparation of enterohemorrhagic *Escherichia coli* (EHEC), strain H414-36/89, serotype O91:H21.

Lot<sup>1</sup>: 7369394 Manufacturing Date: 13JUN2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 490 bp)	Consistent with Escherichia coli	Consistent with Escherichia coli <sup>2</sup>
Presence of Plasmid Confirmed by PCR Amplification	Confirmed	Confirmed
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	5.3 μg in 44 μL per vial (119 μg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Gene-length DNA from plasmid (hlyA virulence marker)	~ 1500 bp amplicon ~ 3200 bp amplicon	~ 1500 bp amplicon ~ 3200 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 BEI Resources NR-97 (Lot: 3663823) into Tryptic Soy Broth (BD 211825). After incubation for 22 hours at 37°C, genomic DNA was extracted using proprietary technology.

**Date:** 06 DEC 2007 **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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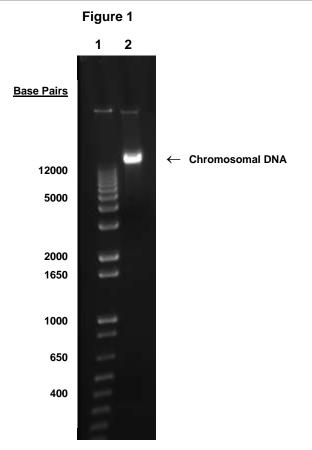
<sup>&</sup>lt;sup>2</sup>Also consistent with *Shigella* species.

<sup>&</sup>lt;sup>3</sup>Incubated for 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™ Ready Load™ 1Kb DNA Ladder™ Lane 2: 200 ng of NR-2650

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