

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.

Lot¹: 7369394

Manufacturing Date: 13JUN2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 490 bp)	Consistent with <i>Escherichia coli</i>	Consistent with <i>Escherichia coli</i> ²
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 (<i>hlyA</i> virulence marker)	~ 1500 bp amplicon ~ 3200 bp amplicon	~ 1500 bp amplicon ~ 3200 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

¹The 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.

²Also consistent with *Shigella* species.

³Incubated for 7 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.

Date: 06 DEC 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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