

Genomic DNA from *Escherichia coli*, Strain CoGen002096

Catalog No. NR-4629

Product Description: Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain CoGen002096, an isolate from Illinois that was obtained during the California spinach outbreak.

Lot¹: 58580369

Manufacturing Date: 24APR2009

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1400 base pairs)	Consistent with <i>Escherichia coli</i>	Consistent with <i>Escherichia coli</i> 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	5.9 µg in 46 µL per vial (129 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 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 Tryptic Soy Broth culture of the deposited material. After incubation for 24 hours at 37°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

²Also consistent with *Shigella* 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 and Gram-positive bacteria.

Date: 27 AUG 2010

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

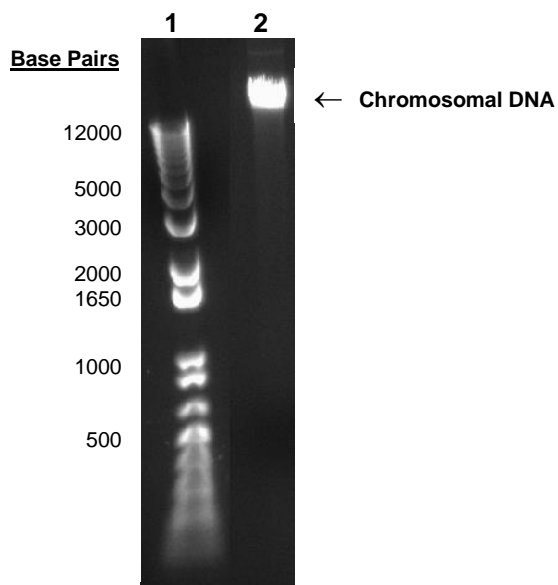
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Figure 1



Lane 1: Invitrogen™ 1Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-4629