

Genomic DNA from *Escherichia coli*, Strain CoGen001854

Catalog No. NR-4631

Product Description: Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain CoGen001854, an isolate from Illinois that was obtained during the 2006 California spinach outbreak.

Lot¹: 58612928

Manufacturing Date: 01MAY2009

| TEST | SPECIFICATIONS | RESULTS |
|---|---------------------------------------|--|
| Sequencing of 16S Ribosomal RNA Gene (~ 1410 base pairs) | Consistent with <i>E. coli</i> | Consistent with <i>E. 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 | 5.5 µg in 31.9 µL per vial (171 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 | 1.8 |
| 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 and Gram-positive bacteria.

Date: 13 APR 2011

Signature: 

Title: Technical Manager, BEI Authentication or designee

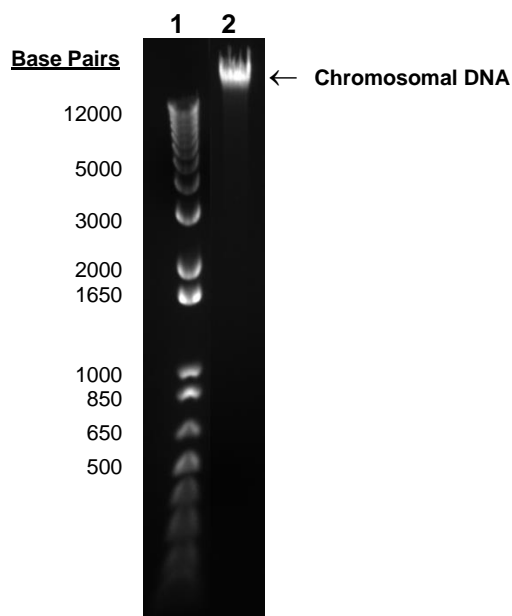
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Figure 1



Lane 1: Invitrogen™ 1Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-4631