Certificate of Analysis for NR-3051

Genomic DNA from *Escherichia coli*, Strain 1885-77 (EDL 1282)

Catalog No. NR-3051

Product Description: Genomic DNA was extracted from a preparation of *Escherichia coli* (*E. coli*), strain 1885-77 (EDL 1282), serotype O29:NM.

Lot[1]: 64204562 **Manufacturing Date: 19MAY2016**

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1450 base pairs)	≥ 99% sequence identity to *E. coli* type strain (GenBank: X80725)	99.1% sequence identity to *E. coli* type strain (GenBank: X80725)[2]
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.0 µg in 32 µL per vial (31 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
Genotypic Analysis of Virulence Markers[3,4] PCR amplification of plasmid markers *invE* (pINV) *elt* (pJY11) *esth* and/or *estp* (pCS1) EAF (pEAF) *bfpA* (pEAF) CVD432 (pAA) *aggR* (pAA) PCR amplification of chromosomal markers *eaeA* *stx1* *sx2* *astA*	 Positive Negative Negative Negative Negative Negative Negative Negative Negative Negative Report results	 Positive Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative
OD_{260}/OD_{280} Ratio	1.7 to 2.1	1.8
Bacterial Inactivation 10% of total yield plated on agar[5,6]	No viable bacteria detected	No viable bacteria detected

[1]The bacterial preparation used for extraction of genomic DNA was produced from BEI Resources NR-100 (lot 3670406). Genomic DNA was extracted using proprietary technology.
[2]Also consistent with *Shigella* species
[3]Kimata, K., et al. "Rapid Categorization of Pathogenic *Escherichia coli* by Multiplex PCR." Microbiol. Immunol. 49 (2005): 485-492. PubMed: 15965295.
[4]Virulence marker results were obtained from the source organism used to produce this lot of nucleic acid (NR-100, lot 3670406).
[5]An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.
[6]Plates were incubated for 14 days under propagation conditions.

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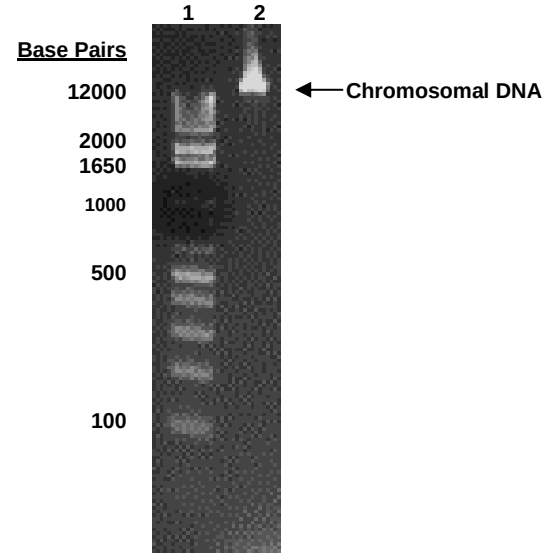
Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3051

Date: 23 MAR 2017 **Signature:**

BEI Resources Authentication

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.

Support Provided by NIAID

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