

Genomic DNA from *Escherichia coli*, Strain D9**Catalog No. HM-87D****Product Description:**

Genomic DNA was extracted from a preparation of *Escherichia coli* (*E. coli*), strain D9 (previously referred to as *Shigella* sp., this genus has been reclassified and the genus designation on the vial label refers to the old nomenclature). The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources lot 70058045 using proprietary technology and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8).

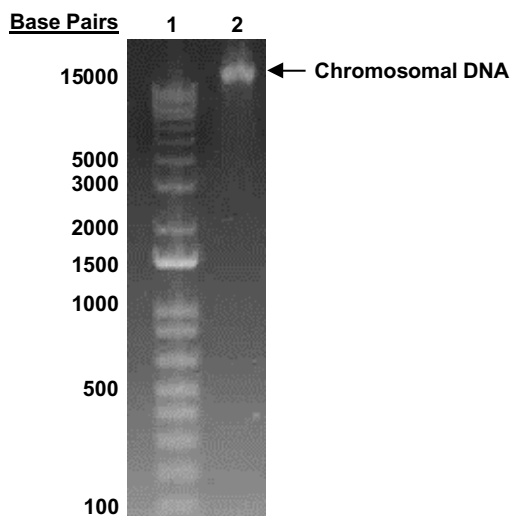
Note: Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70065644**Manufacturing Date: 25JAN2024**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 730 base pairs)	≥ 99% sequence identity to <i>E. coli</i> , strain D9 (GenBank: ACDL01000089.1)	100% sequence identity to <i>E. coli</i> , strain D9 (GenBank: ACDL01000089.1)
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 µg to 1.5 µg in 25 to 100 µL per vial	1 µg in 34 µL per vial (31 µg/mL)
Amount per Vial	0.7 µg to 1.5 µg	1 µg
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.9
Bacterial Inactivation 10% of total yield inoculated in Tryptic Soy agar with 5% defibrinated sheep blood incubated for 14 days at 37°C in an ambient atmosphere ¹	No viable bacteria detected	No viable bacteria detected

¹An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of HM-87D

/Sonia Bjorum Brower/

Sonia Bjorum Brower

24 APR 2024

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® 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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

