Genomic DNA from *Escherichia coli* strain EDL 933

43895D-5™

Description

Genomic DNA isolated from *Escherichia coli* Strain CDC EDL 933. This bacterial strain is also available as ATCC® Catalog No. 43895™.

Organism: *Escherichia coli* (Migula) Castellani and Chalmers
Derived from: *Escherichia coli* CDC EDL 933 (ATCC 43895)
Genome sequenced strain: Yes
Type strain: No
Mass: 5 µg
Shipping information: Stored in 1X TE buffer

Storage Conditions

Product format: Dried

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to

understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Handling Procedures

Centrifuge tube prior to opening to prevent loss of pelleted material

1. Rehydrate contents of vial with molecular grade H_2O.
2. Place vial at 37°C for 1 hour or at 2°C to 8°C overnight.
3. For more complete rehydration and to fully recover DNA, incubate the sample overnight at 4°C while rocking; then incubate for 1 hour at 65°C. Resuspending the dried DNA in ≥ 250 µL may give better results.

Quality Control Specifications

Total amount: Total DNA by PicoGreen® measurement was found to be approximately 5 µg.
Integrity: Integrity of DNA was determined by electrophoresis on a 1% agarose gel stained with SYBR Safe™, and was found to be of high molecular weight.
Functional tests: Functional activity was confirmed by PCR amplification of the 16S ribosomal RNA gene.
Identity: Identity confirmed by sequencing of 16S ribosomal RNA gene (first ~500 base pairs).

Notes

Inhibition of PCR was observed when material was tested after being resuspended in 250 µL of molecular grade water. If issues with PCR are experienced, it is recommended that the material be diluted 1:100 in molecular grade water following the resuspension in 250 µL of molecular grade water. The addition of Bovine Serum Albumin (BSA) to the PCR reaction mix, using 0.25 µg of BSA in a 25 µL PCR (i.e., 0.1 µg/µL as the final concentration) may also yield successful PCR amplification in diluted or non-diluted material.

This preparation of high molecular weight DNA is appropriate for use in the polymerase chain reaction (PCR) process and other molecular biology applications.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Genomic DNA from *Escherichia coli* strain EDL 933 (ATCC 43895D-5)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

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