Genomic DNA from *Streptococcus pyogenes* strain SF370; M1 GAS

700294D-5™

Description

Genomic DNA isolated from *Streptococcus pyogenes* strain SF730; M1 GAS. This whole-genome sequenced product can be used in PCR and other molecular biology applications.

Organism: *Streptococcus pyogenes* Rosenbach
Derived from: *Streptococcus pyogenes* SF370; M1 GAS (ATCC 700294)
Genome sequenced strain: Yes
Type strain: No
Genotype: lysogenic for a bacteriophage carrying pyrogenic exotoxin C (speC+) but negative for erythrogenic toxin A (speA-)
Mass: 5 µg
Shipping information: Stored in 1X TE buffer

Storage Conditions

Product format: Dried
Storage conditions: 2°C to 8°C

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

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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

Electrophoresis - RNA content: No RNA was detected by electrophoresis
Total amount: Total DNA by PicoGreen® measurement was found to be approximately 5 µg.
Purity (A260/A280): 1.6 to 2.0
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.

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Identity: Identity confirmed by sequencing of 16S ribosomal RNA gene (first ~500 base pairs).

Notes

Genomic DNA isolated from bacteria is appropriate for PCR 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 *Streptococcus pyogenes* strain SF370; M1 GAS (ATCC 700294D-5)

References

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

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