

Genomic DNA from *Streptococcus pneumoniae*, Strain TCH8431

Catalog No. HM-145D

Product Description:

Genomic DNA was extracted from a preparation of *Streptococcus pneumoniae* (*S. pneumoniae*), strain TCH8431, which was isolated from a human respiratory tract. The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources lot 70025886. Genomic DNA was extracted using proprietary technology and is provided 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: 70056944

Manufacturing Date: 24JAN2023

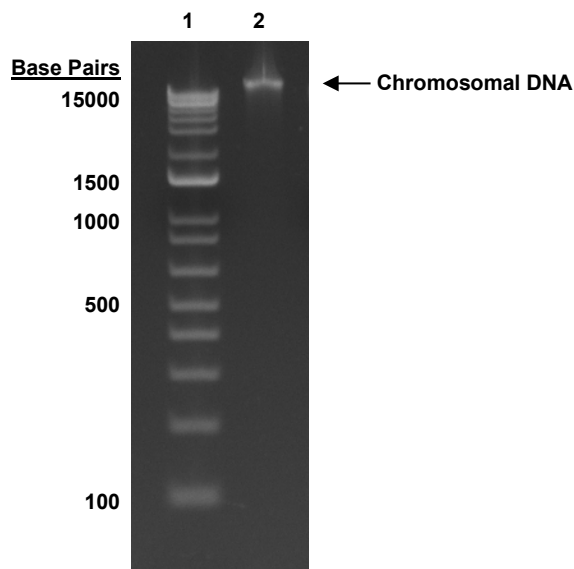
BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>S. pneumoniae</i> , strain TCH8431 (GenBank: CP001993.1)	100% sequence identity to <i>S. pneumoniae</i> , strain TCH8431 (GenBank: CP001993.1)
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 µL to 100 µL/vial	1.3 µg in 39 µL/vial (33 µg/mL)
Amount per Vial	0.7 to 1.5 µg	1.3 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 DNA yield plated on agar ^{1,2}	No viable bacteria detected	No viable bacteria detected

¹14 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

²An 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-145D

/Sonia Bjorum Brower/

Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

04 JUN 2025

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.

