b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-145D

Genomic DNA from *Streptococcus pneumoniae*, Strain TCH8431

Catalog No. HM-145D

Product Description: Genomic DNA was obtained from a preparation of *Streptococcus pneumoniae* (*S. pneumoniae*), strain TCH8431.

Lot[1]: 59673066 **Manufacturing Date: 17JAN2011**

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1470 base pairs)	≥ 99% identical to depositor's sequence Consistent with *S. pneumoniae*	≥ 99% identical to depositor's sequence Consistent with *S. pneumoniae*
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	0.93 µg in 33 µL per vial (28 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.0	2.0
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% sheep blood[2,3]	No viable bacteria detected	No viable bacteria detected

[1]The bacterial preparation used for extraction of genomic DNA was produced by Brain Heart Infusion Broth culture of the deposited material. After incubation for 24 hours at 37°C in an aerobic atmosphere with 5% CO_2, genomic DNA was extracted using proprietary technology.
[2]7 days at 37°C in an aerobic atmosphere with 5% CO_2
[3]An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Date: 19 APR 2011 **Signature:**

Title: Technical Manager, BEI Authentication or designee

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.

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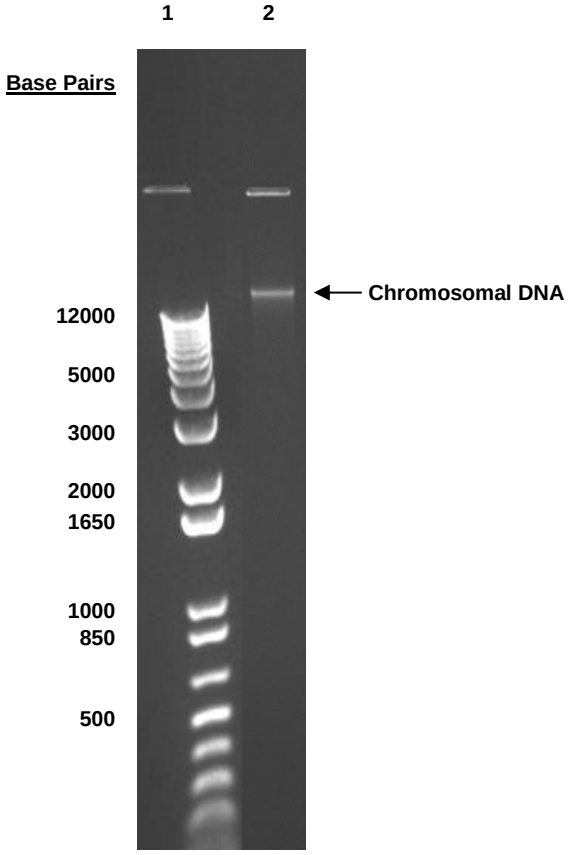
Figure 1



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of HM-145D

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