

**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. The bacterial preparation used for extraction of genomic DNA was produced by culture of HM-145 lot 70025886. Genomic DNA was extracted using proprietary technology and is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

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: 70041776**

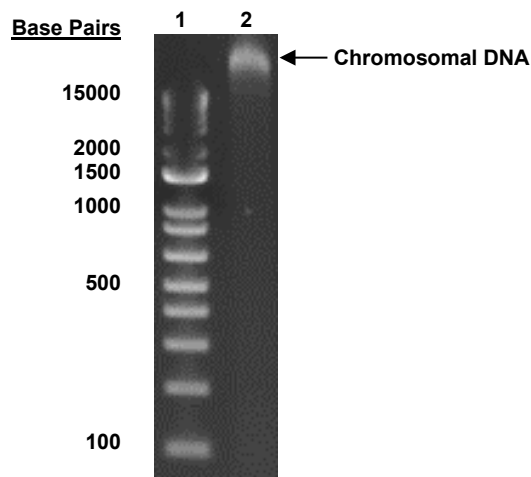
**Manufacturing Date: 09MAR2021**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 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)
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen® Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 85 µL per vial (13 µg per mL)
<b>Amount per Vial</b>	0.7 to 1.5 µg	1.1 µg
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.1	1.8
<b>Bacterial Inactivation</b> 10% of total yield plated on agar <sup>1,2</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>14 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>2</sup>An 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

/Heather Couch/  
Heather Couch

Program Manager or designee, ATCC Federal Solutions

20 MAY 2021

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.

