

**Genomic DNA from *Staphylococcus aureus*, Strain HIP09735**

**Catalog No. NR-51357**

**Product Description:** Genomic DNA was extracted from a preparation of *Staphylococcus aureus* (*S. aureus*), strain HIP09735.

**Lot<sup>1</sup>: 70018054**

**Manufacturing Date: 02NOV2018**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597.1)	100% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597.1) <sup>2</sup>
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen<sup>®</sup> Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	1.2 µg in 36 µL per vial (32 µg/mL)
<b>Amount per vial</b>	0.7 to 1.5 µg	1.2 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	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on agar <sup>3,4</sup>	No viable bacteria detected	No viable bacteria detected

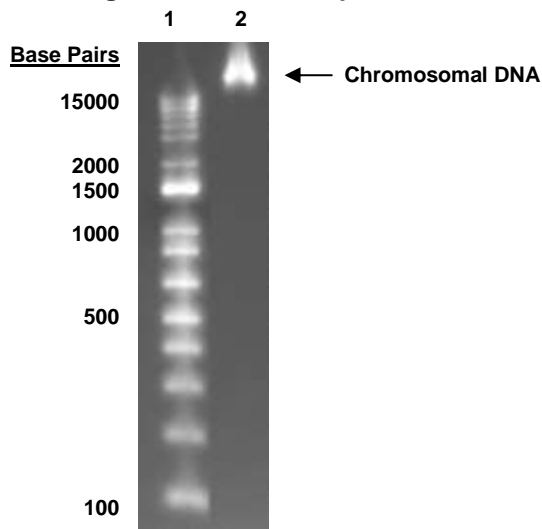
<sup>1</sup>The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-45878 lot 70011104. Genomic DNA was extracted using proprietary technology.

<sup>2</sup>Also consistent with other *Staphylococcus* species

<sup>3</sup>14 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>4</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 NR-51357

/Heather Couch/  
Heather Couch

04 MAR 2019

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