

Genomic DNA from *Staphylococcus aureus*, Strain HIP07930

Catalog No. NR-51355

Product Description: Genomic DNA was extracted from a preparation of *Staphylococcus aureus* (*S. aureus*), strain HIP07930.

Lot¹: 70018052

Manufacturing Date: 18SEP2018

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 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) ²
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	1.2 µg in 31 µL per vial (40 µg/mL)
Amount per vial	0.7 to 1.5 µg	1.2 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	1.8
Bacterial Inactivation 10% of total yield plated on agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

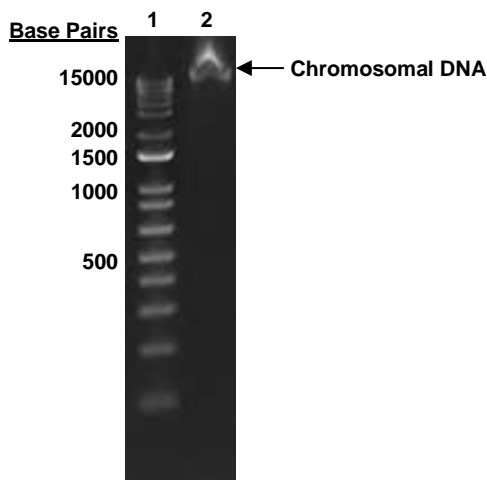
¹The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-45872 lot 62280935. Genomic DNA was extracted using proprietary technology.

²Also consistent with other *Staphylococcus* species

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

⁴An 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-51355

/Heather Couch/

Heather Couch

02 MAY 2019

Program Manager or designee, ATCC Federal Solutions

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