

Genomic DNA from *Staphylococcus aureus*, Strain HIP12899

Catalog No. NR-51359

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Product Description:

Genomic DNA was extracted from a preparation of *Staphylococcus aureus* (*S. aureus*), strain HIP12899 (also referred to as NRS484). *S. aureus*, strain HIP12899 was isolated in 1996 from a wound in Alaska, USA. The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-46081 lot 62280966. Genomic DNA was extracted using proprietary technology.

Lot: 70018056

Manufacturing Date: 17OCT2018

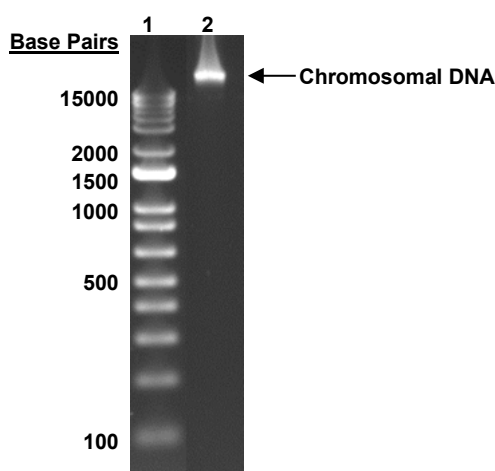
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597.1)	100% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597.1) ¹
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 34 µL per vial (32 µg/mL)
Amount per Vial	0.7 to 1.5 µg	1.1 µg
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.6 to 2.1	1.9
Bacterial Inactivation 10% of total yield plated on agar ^{2,3}	No viable bacteria detected	No viable bacteria detected

¹Also consistent with other *Staphylococcus* species

²14 days at 37°C in an aerobic atmosphere on Tryptic Soy agar.

³An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: ~ 200 ng of NR-51359

/Sonia Bjorum Brower/

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21 MAY 2024

Technical Manager or designee, ATCC Federal Solutions

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