

Staphylococcus aureus, Strain Sa1554

Catalog No. NR-51344

Product Description: *Staphylococcus aureus* (*S. aureus*), strain Sa1554 was isolated in 2005 from the bloodstream of a patient with septicemia in Helsinki, Finland. *S. aureus*, strain Sa1554 can be auto-induced following ultraviolet radiation treatment to produce bacteriophage phi05_1554UV/Sa1554.

Lot¹: 70017004

Manufacturing Date: 05JUL2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ³ Biochemical characterization: Catalase VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Report results Positive <i>S. aureus</i>	Gram-positive cocci Circular, convex, entire, opaque and white (Figure 1) Non-motile Non-hemolytic ⁴ Positive <i>S. aureus</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597)	99.9% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597) ⁵
Purity (post-freeze)⁶	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-51344 was produced by inoculation of BEI Resources HMC-663 lot 59773832 into Brain Heart Infusion broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 2 days at 37°C in an aerobic atmosphere to produce this lot.

²1 day at 37°C in an aerobic atmosphere on Brain Heart Infusion agar

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

⁴Limited β-hemolysis was observed after 2 days

⁵Also consistent with other *Staphylococcus* species

⁶Purity of this lot was assessed for 7 days on Brain Heart Infusion agar at 37°C in an aerobic atmosphere.

Figure 1: Colony Morphology



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