

Certificate of Analysis for NR-46266

Staphylococcus aureus, Strain TN-65

Catalog No. NR-46266

Product Description: *Staphylococcus aureus* (*S. aureus*), strain TN-65 is of unknown origin. *S. aureus*, strain TN-65 is a clinically-associated methicillin-resistant *S. aureus* (MRSA) strain.

Lot¹: 2137 Manufacturing Date: 18NOV2016

| ram-positive cocci eport results eport results eport results eport results estive eport results | Gram-positive cocci Circular, convex, entire, smooth, opaque and cream (Figure 1) Non-motile β-hemolytic |
|---|--|
| eport results eport results eport results eport results ositive | Circular, convex, entire, smooth, opaque and cream (Figure 1) Non-motile |
| eport results eport results eport results eport results ositive | Circular, convex, entire, smooth, opaque and cream (Figure 1) Non-motile |
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| eport results ositive | Non-motile |
| eport results ositive | |
| ositive | р-петтогунс |
| | |
| | Positive |
| | Positive |
| 90% probability of being <i>S. aureus</i> | |
| 90% probability of being 3. aureus | S. aureus (98% probability) ⁵ |
| | |
| | |
| eport results | Positive |
| eport results | Positive |
| eport results | Resistant (≥ 0.5 μg/mL) |
| esistant | Resistant (≥ 4 µg/mL) |
| ensitive | Sensitive (≤ 0.5 µg/mL) |
| | Resistant (≥ 8 µg/mL) |
| esistant | Resistant (≥ 8 µg/mL) |
| | Resistant (= 4 µg/mL) |
| • | Positive ⁸ |
| • | Resistant (≥ 8 μg/mL) |
| | Sensitive (≤ 0.25 µg/mL) |
| | Sensitive (= 2 µg/mL) |
| | Sensitive (= 0.25 µg/mL) |
| | Sensitive (= 1 µg/mL) |
| | Sensitive (≤ 0.5 µg/mL) |
| • | Sensitive (≤ 1 µg/mL) |
| | Sensitive (≤ 1.12 µg/mL) ⁹ |
| | Sensitive (≤ 16 µg/mL) |
| • | Sensitive (≤ 10 µg/mL) |
| | Sensitive (≤ 10.9 µg/mL) |
| 71011140 | σοποιίνο (= το μg/πιΕ) |
| anort results | Sensitive (= 3 µg/mL) ¹² |
| | Sensitive (= 3 µg/mL) |
| sport results | Sensitive (= 1 µg/mz) |
| | |
| | 100% sequence identity to |
| | S. aureus type strain |
| (GenBank: L37597) | (GenBank: L37597) |
| onsistent with expected colony | Consistent with expected colony |
| morphology | morphology |
| 1 37 | 1 |
| rowth | Growth |
| (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | port results port results port results sistant nsitive port results sistant port results sistant port results sistant port results nsitive nsitive nsitive port results nsitive port results nsitive port results nsitive port results port res |

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SUPPORTING INFECTIOUS DISEASE RESEARCH

- ¹S. aureus, strain TN-65 was deposited to BEI Resources as part of the NARSA collection. NR-46266 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
- ²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar
- 31 day at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood
- ⁴4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
- ⁵Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. For additional information, please refer to O'Hara, C. M. and J. M. Miller. "Evaluation of the VITEK 2 ID-GNB Assay for Identification of Members of the Family *Enterobacteriaceae* and Other Nonenteric Gram-Negative Bacilli and Comparison with the VITEK GNI+ Card." J. Clin. Microbiol. 41 (2003): 2096-2101. PubMed: 12734254.
- ⁶Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- ⁷The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
- ⁸The VITEK[®] AST-GP71 card tests for both clindamycin resistance and inducible clindamycin resistance (ICR). A positive ICR test is indicative of inducible MLS_b resistance, which confers resistance to macrolides, lincosamides, and type B streptogramin. *S. aureus*, strain TN-65 was found to be sensitive to clindamycin but had a positive ICR test and therefore should be considered resistant.
- ⁹MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
- ¹⁰1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ¹¹For both chloramphenicol (bioMérieux Etest[®] 412308) and teicoplanin (bioMérieux Etest[®] 412459), a MIC ≤ 8 μg/mL is sensitive, a MIC = 16 μg/mL is intermediate and a MIC ≥ 32 μg/mL is resistant.
- ¹²S. aureus, strain TN-65 was deposited as having an intermediate resistance to chloramphenicol. Antibiotic susceptibility testing performed in duplicate determined that strain TN-65 is sensitive to chloramphenicol.
- ¹³Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 17 APR 2017

Signature:

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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.

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