Certificate of Analysis for NR-45888

Staphylococcus epidermidis, Strain 01-004-2919

Catalog No. NR-45888

Product Description: *Staphylococcus epidermidis* (*S. epidermidis*), strain 01-004-2919 was isolated in January 2001 from peritoneal fluid of a 31-year-old male in Pennsylvania, USA. *S. epidermidis*, strain 01-004-2919 is a vancomycin-intermediate *S. epidermidis* strain (VISE).

Lot[1]: 63406791 **Manufacturing Date: 03APR2015**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology[2]	Report results	Circular, low convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis[2]	Report results	Non-hemolytic
Biochemical characterization		
Catalase	Positive	Positive
Coagulase[3]	Report results	Negative
VITEK® 2 Compact (GP card)	Consistent with *S. epidermidis*	Consistent with *S. epidermidis*
Antibiotic Susceptibility Profile		
VITEK® (AST-GP71 card)[4]		
Beta-lactamase[5]	Report results	Negative
Cefoxitin screen	Report results	Positive
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Ciprofloxacin	Resistant	Resistant (= 4 µg/mL)
Levofloxacin	Report results	Resistant (= 4 µg/mL)
Moxifloxacin	Report results	Intermediate (= 1 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Resistant (≥ 8 µg/mL)
Clindamycin	Report results	Resistant (≥ 8 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Linezolid	Report results	Sensitive (= 2 µg/mL)
Daptomycin	Non-susceptible	Non-susceptible (= 2 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 µg/mL)
Tetracycline	Sensitive	Sensitive (= 2 µg/mL)
Tigecycline	Report results	Sensitive (= 0.25 µg/mL)[6]
Nitrofurantoin	Report results	Sensitive (≤ 16 µg/mL)
Rifampicin	Report results	Resistant (≥ 32 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (= 80 µg/mL)
Etest® antibiotic test strips[7]		
Chloramphenicol[8]	Report results	Resistant (> 256 µg/mL)
Teicoplanin[8]	Resistant	Resistant (= 32 µg/mL)
Vancomycin[8]	Intermediate	Intermediate (= 12 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with *S. epidermidis*	Consistent with *S. epidermidis*[9]

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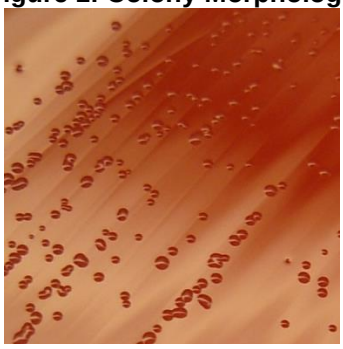
Certificate of Analysis for NR-45888

TEST	SPECIFICATIONS	RESULTS
Purity (post freeze)[10]	Growth consistent with *S. epidermidis*	Growth consistent with *S. epidermidis*
Viability (post-freeze)[2]	Growth	Growth

[1]*S. epidermidis*, strain 01-004-2919 was deposited to BEI Resources as part of the NARSA collection. NR-45888 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 with 5% defibrinated sheep blood kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
[2]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
[3]1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
[4]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
[5]The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
[6]MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
[7]1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
[8]For 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. For vancomycin (bioMérieux Etest® 412486), a MIC ≤ 4 µg/mL is sensitive, a MIC = 8-16 µg/mL is intermediate, and a MIC ≥ 32 µg/mL is resistant.
[9]Also consistent with other *Staphylococcus* species
[10]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 29 OCT 2015

Signature:

BEI Resources Authentication

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