

**Staphylococcus lugdunensis, Strain VCU150**

**Catalog No. NR-46409**

**Product Description:** *Staphylococcus lugdunensis* (*S. lugdunensis*), strain VCU150 is of unknown origin.

**Lot<sup>1</sup>: 70024767**

**Manufacturing Date: 26APR2019**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) Hemolysis <sup>3</sup> Biochemical characterization Catalase Coagulase <sup>4</sup> VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-positive cocci Report results  Report results Report results  Positive Report results <i>S. lugdunensis</i>	Gram-positive cocci Circular, low convex, entire, smooth and cream (Figure 1) Non-motile Non-hemolytic  Positive Negative <i>S. lugdunensis</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>5</sup></b> VITEK <sup>®</sup> (AST-GP78 card) Beta-lactamase <sup>6</sup> Cefoxitin screen Benzylpenicillin Oxacillin Ceftaroline Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Linezolid Daptomycin Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole	Report results Report results	Positive Negative Resistant ( $\geq 0.5 \mu\text{g/mL}$ ) Sensitive ( $0.5 \mu\text{g/mL}$ ) Sensitive ( $0.25 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $0.25 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.25 \mu\text{g/mL}$ ) Negative Resistant ( $\geq 8 \mu\text{g/mL}$ ) Resistant ( $\geq 4 \mu\text{g/mL}$ ) Sensitive ( $2 \mu\text{g/mL}$ ) Sensitive ( $1 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $2 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.12 \mu\text{g/mL}$ ) <sup>7</sup> Sensitive ( $\leq 16 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $\leq 10 \mu\text{g/mL}$ )
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	$\geq 99\%$ sequence identity to <i>S. lugdunensis</i> , strain VCU150 (GenBank: JIBS01000020.1)	99.8% sequence identity to <i>S. lugdunensis</i> , strain VCU150 (GenBank: JIBS01000020.1) <sup>8</sup>
<b>Purity (post-freeze)<sup>9</sup></b>	Consistent with expected colony morphology	Consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>*S. lugdunensis*, strain VCU150 was deposited to BEI Resources as part of the NARSA collection. NR-46409 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.

<sup>2</sup>1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar

<sup>3</sup>1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>4</sup>1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

<sup>5</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>6</sup>The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

<sup>7</sup>MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

<sup>8</sup>Also consistent with *S. haemolyticus*

<sup>9</sup>Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood.

**Figure 1: Colony Morphology**



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Program Manager or designee, ATCC Federal Solutions

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