ANTIMICROBIAL RESISTANCE BANK

STAPHYLOCOCCUS AUREUS

AR-BANK#0224

STORAGE TEMPERATURE -70°C

BIOSAFETY LEVEL 2

PROPAGATION

MEDIUM

Medium: Trypticase Soy Agar with 5% Sheep Blood (BAP)

GROWTH CONDITIONS

Temperature: **35°C**
Atmosphere: **Aerobic**

PROPAGATION PROCEDURE

Remove the sample vial to a container with dry ice or a freezer block. Keep vial on ice or block. (Do not let vial content thaw)

Open vial aseptically to avoid contamination

Using a sterile loop, remove a small amount of frozen isolate from the top of the vial

Aseptically transfer the loop to BAP

Use streak plate method to isolate single colonies

Incubate inverted plate at 35°C for 18-24 hrs.

KNOWN RESISTANCE:

Elevated MIC to vancomycin

MIC (µg/ml) RESULTS AND INTERPRETATION

DRUG	MIC	INT	DRUG	MIC	INT
Cefoxitin[1]	>16	R	Linezolid	4	S
Ceftaroline	1	S	Mupirocin	>256	R[4]
Clindamycin	≤0.25	R[2]	Oxacillin	>16	R
Daptomycin	2	NS	Penicillin	>2	R
Doxycycline	≤1	S	Rifampin	≤0.5	S
Erythromycin	>8	R	Tetracycline	2	S
Gentamicin	≤2	S	Trimethoprim/sulfamethoxazole[5]	≤0.5	S
Levofloxacin	8	R	Vancomycin	4	I

S – I –R Interpretation (INT) derived from *CLSI 2015 M100-S25*
NS = Nonsusceptible
[1] Cefoxitin is tested as a surrogate for *mecA*-mediated oxacillin resistance
[2] Inducible clindamycin resistance detected
[3] No inducible clindamycin resistance detected
[4] High-level mupirocin resistance
[5] Reflects MIC of first component

SEQUENCING INFORMATION: No Sequencing information available at this time

ACCESSION #	SEQUENCING SOURCE	LINK

BIOSAFETY LEVEL 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *BioSafety in Microbiological and Biomedical Laboratories* (HHS Publication No. (CDC) 21-1112) from the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, and National Institutes of Health.

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