



STAPHYLOCOCCUS AUREUS

AR-BANK#0226

KNOWN RESISTANCE:

Elevated MIC to vancomycin

	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.

MIC (µg/ml) RESULTS AND INTERPRETATION

DRUG	MIC	INT	DRUG	MIC	INT
Cefoxitin ¹	16	R	Linezolid	2	S
Ceftaroline	0.5	S	Mupirocin	≤4	---
Clindamycin	≤0.25	S ³	Oxacillin	8	R
Daptomycin	2	NS	Penicillin	>2	R
Doxycycline	≤1	S	Rifampin	>8	R
Erythromycin	>8	R	Tetracycline	≤1	S
Gentamicin	≤2	S	Trimethoprim/sulfamethoxazole ⁵	≤0.5	S
Levofloxacin	≤0.5	S	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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