



# SERRATIA MARCESCENS

AR-BANK#0122

	STORAGE TEMPERATURE	-70°C
	BIOSAFETY LEVEL	2

KNOWN ACQUIRED RESISTANCE:

**(+) SME**

Reduced susceptibility, elevated Carbapenem MICs.

Known Resistance is listed above by (+) for positive result and (-) for negative result.

## 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
Amikacin	2	S	Doripenem	---	---
Amoxicillin/Clavulanic Acid*	>32	R	Ertapenem	>16	R
Ampicillin	>32	R	Gentamicin	0.5	S
Ampicillin/Sulbactam*	>32	R	Imipenem	>32	R
Aztreonam	16	R	Imipenem+chelators**	---	---
Cefazolin	>32	R	Levofloxacin	≤0.25	S
Cefepime	≤0.5	S	Meropenem	>16	R
Cefotaxime	≤1	S	Piperacillin/Tazobactam*	2	S
Cefoxitin	2	S	Polymyxin B	>4	---
Ceftazidime	1	S	Tetracycline	8	I
Ceftriaxone	≤1	S	Tigecycline***	1	S
Ciprofloxacin	≤0.12	S	Tobramycin	1	S
Colistin	>4	---	Trimethoprim/Sulfamethoxazole*	2	S

S – I – R Interpretation (INT) derived from *CLSI 2015 M100 S25*

SDD (Susceptible Dose Dependent)

\* Reflects MIC of first component

\*\* Screen for metallo-beta-lactamase production

[Rasheed et al. *Emerging Infectious Diseases*. 2013. 19(6):870-878]

\*\*\* Based on FDA break points

SEQUENCING INFORMATION: No Sequencing information available at this time.

SEQUENCING		
ACCESSION #	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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