



	STORAGE TEMPERATURE	-70°C
	BIOSAFETY LEVEL	2

ENTEROBACTER CLOACAE

AR-BANK#0366

Key RESISTANCE:

KPC-mediated carbapenem resistance

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	4	S	Doripenem	2	I
Ampicillin	>32	R	Ertapenem	>8	R
Ampicillin/sulbactam ¹	>32	R	Gentamicin	8	I
Aztreonam	>64	R	Imipenem	8	R
Cefazolin	>8	R	Imipenem+chelators ²	8	---
Cefepime	8	SDD	Levofloxacin	0.25	S
Cefotaxime	16	R	Meropenem	4	R
Cefoxitin	>16	R	Piperacillin/tazobactam ¹	>128	R
Ceftazidime	16	R	Polymyxin B	0.5	---
Ceftazidime/avibactam ¹	≤0.5	S ³	Tetracycline	16	R
Ceftolozane/tazobactam ¹	8	R	Tigecycline	2	S ³
Ceftriaxone	>32	R	Tobramycin	16	R
Ciprofloxacin	≤0.25	S	Trimethoprim/sulfamethoxazole ¹	≤0.5	S
Colistin	≤0.25	---			

S – I – R Interpretation (INT) derived from *CLSI 2016 M100 S26*
SDD (Susceptible Dose Dependent)

¹ Reflects MIC of first component

² Screen for metallo-beta-lactamase production
[Rasheed et al. Emerging Infectious Diseases. 2013. 19(6):870-878]

³ Based on FDA breakpoints



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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