ANTIMICROBIAL RESISTANCE BANK

PSEUDOMONAS AERUGINOSA

AR-BANK#0353

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	64	R	Gentamicin	>16	R
Aztreonam	16	I	Imipenem	32	R
Cefepime	32	R	Imipenem+chelators[2]	16	---
Ceftazidime	>128	R	Levofloxacin	>8	R
Ceftazidime/avibactam[1]	8	S[3]	Meropenem	>8	R
Ceftolozane/tazobactam[1]	128	R	Piperacillin/tazobactam[1]	64	I
Ciprofloxacin	>8	R	Polymyxin B	0.5	S
Colistin	≤0.25	S	Tobramycin	>16	R
Doripenem	>8	R			

S – I –R Interpretation (INT) derived from *CLSI 2016 M100 S26*
[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 break points

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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