



	STORAGE TEMPERATURE	-70°C
	BIOSAFETY LEVEL	2

## ESCHERICHIA COLI

AR-BANK#0370

### 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	8	S	Colistin	≤0.25	---
Ampicillin	>32	R	Doripenem	≤0.12	S
Ampicillin/sulbactam <sup>1</sup>	>32	R	Ertapenem	0.25	S
Aztreonam	>64	R	Gentamicin	0.5	S
Cefazolin	>8	R	Imipenem	≤0.5	S
Cefepime	>32	R	Imipenem+chelators <sup>2</sup>	≤0.25	---
Cefotaxime	>64	R	Levofloxacin	>8	R
Cefotaxime/clavulanic acid <sup>1</sup>	≤0.25	---	Meropenem	≤0.12	S
Cefoxitin	>16	R	Piperacillin/tazobactam <sup>1</sup>	32	I
Ceftazidime	128	R	Polymyxin B	0.5	---
Ceftazidime/avibactam <sup>1</sup>	≤0.5	S <sup>3</sup>	Tetracycline	>32	R
Ceftazidime/clavulanic acid <sup>1</sup>	1	---	Tigecycline	≤0.5	S <sup>3</sup>
Ceftolozane/tazobactam <sup>1</sup>	2	S	Tobramycin	16	R
Ceftriaxone	>32	R	Trimethoprim/sulfamethoxazole <sup>1</sup>	≤0.5	S
Ciprofloxacin	>8	R			

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

<sup>1</sup> Reflects MIC of first component

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

<sup>3</sup> 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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