

### CLINIC INFORMATION

Name: Assurance Pathology Laboratory  
 Address: 2868 Acton Road Suite 207 BIRMINGHAM, AL 35243  
 Provider: Doctor Test

### PATIENT INFORMATION

Name: PATIENT, NEW  
 DOB: 7/4/1976  
 Gender: M  
 ID:

### SPECIMEN INFORMATION

Lab Accession Number: ASL-50685  
 Date Collected: 1/31/2019 09:32  
 Date Received by Lab: 2/1/2019  
 Date Accessioned: 2/1/2019  
 Date Reported: 2/1/2019  
 Faxed to: 18667020880

### Controls

Patient Extraction Control <sup>1</sup>	PASS
Endogenous Positive Control <sup>2</sup>	PASS
Pathogen Positive Control <sup>3</sup>	PASS
Pathogen Negative Control <sup>3</sup>	PASS

- (1) Endogenous control confirms sample collection, DNA/RNA extraction, and assay enzyme activity
- (2) Positive control is synthetic inactive pathogen
- (3) Negative Control contains primers, probe, and enzymes with no DNA/RNA template
- (4) A "Detected" result indicates the presence of a pathogen (99.99% confidence) above the assay cutoff. Assay cutoff is represented by CFU (bacteria), PFU (viruses) or Copy Number (DNA)

### Test Performed

Lab Result(4)  
 (Qualitative Low/Medium/High)

DNA Copy Number

Comments

### SUMMARY Wound/Infection Pathogens

<b>E. aerogenes</b>	<b>DETECTED - MEDIUM</b>	<b>1.00E+03</b>	
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### Class (Gene Name)

Lab Result  
 (Qualitative)

Resistance Gene  
 Targets Identified

Associated Resistances  
 (Antibiotics to Avoid)

### SUMMARY Antibiotic Resistance Markers

<b>mecA</b>	<b>DETECTED</b>	mecA	Methicillin
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### Antibiotic Sensitivity Testing

Minimum Inhibitory  
 Concentration (ug/ml)

Susceptibility

Notes

Culture ID			
Organism Cultured:	E.aerogenes		

### Antibiotic Sensitivity Testing

Gentamicin AST	<= 4 ug/mL	Susceptible	
Ceftriaxone AST	2 ug/mL	Intermediate	
Levofloxacin AST	<= 1 ug/mL	Susceptible	
Ciprofloxacin AST	< 1 ug/mL	Susceptible	
Trimethoprim/sulfamethoxazole AST	<= 2/38 ug/mL	Susceptible	
<b>Cefazolin AST</b>	<b>16 ug/mL</b>	<b>Resistant</b>	

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This test detects the presence of pathogen and must be evaluated with clinical symptoms to diagnose disease. All tests established and validated by Laboratory and not FDA approved.

Methodology statement: Simplex real-time PCR assays are designed to detect pathogens with clinical significance and analytical sensitivity and specificity greater than 99%.

Limitations: While these assays are very sensitive and specific, theoretically these assays could detect pathogens not listed, resulting in a false positive.

In addition, while these assays are very specific, there may be target pathogen sequences with unknown sequence variability which may not be detected, resulting in a false negative result.

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Wound/Infection Pathogens			
A. baumannii	Not Detected	Not Detected	
C. freundii/braakii	Not Detected	Not Detected	
<b>E. aerogenes</b>	<b>DETECTED - MEDIUM</b>	<b>1.00E+03</b>	
E. cloacae	Not Detected	Not Detected	
E. faecalis	Not Detected	Not Detected	
E. faecium	Not Detected	Not Detected	
E. coli	Not Detected	Not Detected	
K. oxytoca/pneumoniae	Not Detected	Not Detected	
Morganella morganii	Not Detected	Not Detected	
Proteus mirabilis	Not Detected	Not Detected	
P. aeruginosa	Not Detected	Not Detected	
S. aureus	Not Detected	Not Detected	
S. pyogenes	Not Detected	Not Detected	

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Class (Gene Name)	Lab Result (Qualitative)	Resistance Gene Targets Identified	Associated Resistances (Antibiotics to Avoid)
<b>Antibiotic Resistance Markers</b>			
Class A Beta-lactamase (CTX-M-Group 1)	Not Detected	blaCTX-M-1,3,10,12,15,22,23,28, blaFEC-1	cephalosporins, penicillins, aztreonam
Class A Beta-lactamase (blaKPC)	Not Detected	KPC-2-8,10,11,13-22,24-33	carbapenems, cephalosporins, penicillins, beta-lactamase inhibitors, aztreonam
Class B metallo Beta-lactamase (blaNDM)	Not Detected	NDM (1-21)	carbapenems, cephalosporins, penicillins, beta-lactamase inhibitors
vanA Vancomycin	Not Detected	vanA	Vancomycin
<b>mecA</b>	<b>DETECTED</b>	mecA	Methicillin

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