

CLINIC INFORMATION

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

PATIENT INFORMATION

Name: TEST, TEST
DOB: 5/12/1965
Gender: M

SPECIMEN INFORMATION

Lab Accession Number: ASL-80105
Date Collected: 1/19/2020
Date Received by Lab: 1/20/2020
Date Accessioned: 1/20/2020
Date Reported: 1/20/2020
Faxed to: 18777966185

Controls

Patient Extraction Control ¹	PASS
Endogenous Positive Control ¹	PASS
Pathogen Positive Control ²	PASS
Pathogen Negative Control ³	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

Collection Type: Wound Swab

<i>Pseudomonas aeruginosa</i>	DETECTED - HIGH	1.00E+06	
<i>Staphylococcus aureus</i>	DETECTED - MEDIUM	1.00E+03	

Class (Gene Name)

Lab Result
(Qualitative)

Resistance Gene
Targets Identified

Associated Resistances

SUMMARY Antibiotic Resistance Markers

<i>mecA</i> (Methicillin/Oxacillin resistance)	DETECTED	<i>mecA</i>	[1/20/2020 10:04 AM] Oxacillin
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Antibiotic Sensitivity Testing

Minimum Inhibitory
Concentration (ug/ml)

Susceptibility

Notes

Culture ID			
Organism Cultured:	P.aeruginosa		

Antibiotic Sensitivity Testing

Gentamicin AST	<= 4 ug/mL	Susceptible	
Ciprofloxacin AST	<= 1 ug/mL	Susceptible	
Aztreonam AST	<= 4 ug/mL	Susceptible	

Culture ID - 2nd Organism

Organism Cultured:	S.aureus		[1/20/2020 10:07 AM] If AST confirms Vancomycin-Intermediate (VISA) or Vancomycin-Resistant (VISA) status, S.aureus is a Notifiable Pathogen and must be reported to ADPH within 5 days of receipt of report.
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Antibiotic Sensitivity Testing - 2nd Organism

Ceftaroline AST	<= 0.12 ug/mL	Susceptible	
Clindamycin AST	<= 0.5 ug/mL	Susceptible	
Linezolid AST	<= 1 ug/mL	Susceptible	
Penicillin AST	> 8 ug/mL	Resistant	
Rifampin AST	<= 1 ug/mL	Susceptible	
Tetracycline AST	<= 2 ug/mL	Susceptible	
Erythromycin AST	<= 0.5 ug/mL	Susceptible	

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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: 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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Antibiotic Sensitivity Testing

Minimum Inhibitory
Concentration (ug/ml)

Susceptibility

Notes

Antibiotic Sensitivity Testing - 2nd Organism (cont'd)

Antibiotic	Minimum Inhibitory Concentration (ug/ml)	Susceptibility	Notes
Vancomycin AST	<= 0.25 ug/mL	Susceptible	
Oxacillin+2% NaCL AST	> 2 ug/mL	Resistant	
Daptomycin AST	<= 0.5 ug/mL	Susceptible	
Trimethoprim/sulfamethoxazole AST	<= 2/38 ug/mL	Susceptible	

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Test Performed	Lab Result(4) (Low/Medium/High)	DNA Copy Number	Comments
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Wound/Infection Pathogens			
Acinetobacter baumannii	Not Detected	Not Detected	
Bacteroides fragilis	Not Detected	Not Detected	
Citrobacter freundii/braakii	Not Detected	Not Detected	
Citrobacter koseri	Not Detected	Not Detected	
Enterobacter cloacae	Not Detected	Not Detected	
Enterococcus spp.	Not Detected	Not Detected	
Escherichia coli	Not Detected	Not Detected	[1/20/2020 10:04 AM] Shares homology with Shigella spp.
Klebsiella aerogenes	Not Detected	Not Detected	
Klebsiella oxytoca/michiganensis	Not Detected	Not Detected	
Klebsiella pneumoniae	Not Detected	Not Detected	
Morganella morganii	Not Detected	Not Detected	
Proteus mirabilis	Not Detected	Not Detected	
Pseudomonas aeruginosa	DETECTED - HIGH	1.00E+06	
Serratia marcescens	Not Detected	Not Detected	
Staphylococcus aureus	DETECTED - MEDIUM	1.00E+03	
Staphylococcus epidermidis	Not Detected	Not Detected	
Staphylococcus saprophyticus	Not Detected	Not Detected	
Streptococcus pyogenes (Group A)	Not Detected	Not Detected	

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Class (Gene Name)	Lab Result (Qualitative)	Resistance Gene Targets Identified	Associated Resistances
Antibiotic Resistance Markers			
Class A Beta-lactamase (blaKPC)	Not Detected	KPC-2-8,10,11,13-22,24-33	[1/20/2020 10:04 AM] Carbapenems, Cephalosporins, Penicillins, Beta-lactamase inhibitors, Aztreonam
Class A Beta-lactamase (CTX-M-Group 1)	Not Detected	blaCTX-M-1,3,10,12,15,22,23,28; blaFEC-1	[1/20/2020 10:04 AM] Cephalosporins, Penicillins, Aztreonam
Class B metallo Beta-lactamase (blaNDM)	Not Detected	NDM (1-21)	[1/20/2020 10:04 AM] Carbapenems, Cephalosporins, Penicillins, Beta-lactamase inhibitors
Fluoroquinolones	Not Detected	qnrS 1-5,7-9; qnrB Group 1; qnrB Group 5	[1/20/2020 10:04 AM] Ciprofloxacin, Gemifloxacin, Levofloxacin, Moxifloxacin, Norfloxacin, Ofloxacin
mecA (Methicillin/Oxacillin resistance)	DETECTED	mecA	[1/20/2020 10:04 AM] Oxacillin
Sulfonamides	Not Detected	sul1; sul2; sul3	[1/20/2020 10:04 AM] Sulfadiazine, Sulfamethizole, Sulfamethoxazole, Sulfasalazine, Sulfisoxazole
Trimethoprim	Not Detected	dfrA1; dfrA5; dfrA11; dfrA17	[1/20/2020 10:04 AM] Primsol
vanA (Vancomycin)	Not Detected	vanA	[1/20/2020 10:04 AM] Vancomycin
vanB (Vancomycin)	Not Detected	vanB	[1/20/2020 10:04 AM] Vancomycin

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