

### CLINIC INFORMATION

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

### PATIENT INFORMATION

Name: TEST, PATIENT  
 DOB: 3/31/1995 Sex: M  
 Phone: (777) 777-7777  
 Address: 456 MAPLE ST BIRMINGHAM, AL 35243

### SPECIMEN INFORMATION

Lab Accession Number: ASL-197261  
 Date Collected: 7/7/2020  
 Date Received by Lab: 7/8/2020  
 Date Accessioned: 7/8/2020  
 Date Reported: 7/8/2020  
 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 UTI Pathogens Plus

Collection Type: Urine clean catch

Acinetobacter baumannii	DETECTED - HIGH	1.00E+04	
Candida dubliniensis	DETECTED - HIGH	1.00E+04	
Candida krusei	DETECTED - LOW	1.00E+02	
Streptococcus agalactiae (GBS)	DETECTED - HIGH	1.00E+04	

### Class (Gene Name)

Lab Result  
 (Qualitative)

Resistance Gene  
 Targets Identified

Associated Resistances  
 (Antibiotics to Avoid)

### SUMMARY Antibiotic Resistance Markers

Fluoroquinolones	DETECTED	qnrS 1-5,7-9; qnrB Group 1; qnrB Group 5	[7/8/2020 5:22 PM] Ciprofloxacin, Gemifloxacin, Levofloxacin, Moxifloxacin, Norfloxacin, Ofloxacin
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Lab Director: Ty Thomas, MD

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Test results must be evaluated with clinical symptoms to diagnose disease. All tests established and validated by Laboratory and not FDA approved unless otherwise indicated.

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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Test Performed	Lab Result(4) (Low/Medium/High)	DNA Copy Number	Comments
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UTI Pathogens Plus			
Acinetobacter baumannii	DETECTED - HIGH	1.00E+04	
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	
Klebsiella aerogenes	Not Detected	Not Detected	
Klebsiella oxytoca/michiganesis	Not Detected	Not Detected	
Klebsiella pneumoniae	Not Detected	Not Detected	
Morganella morganii	Not Detected	Not Detected	
Proteus mirabilis	Not Detected	Not Detected	
Pseudomonas aeruginosa	Not Detected	Not Detected	
Serratia marcescens	Not Detected	Not Detected	
Staphylococcus aureus	Not Detected	Not Detected	
Staphylococcus epidermidis	Not Detected	Not Detected	
Staphylococcus saprophyticus	Not Detected	Not Detected	
Streptococcus pyogenes (Group A)	Not Detected	Not Detected	
Candida albicans	Not Detected	Not Detected	
Candida dubliniensis	DETECTED - HIGH	1.00E+04	
Candida glabrata	Not Detected	Not Detected	
Candida krusei	DETECTED - LOW	1.00E+02	
Candida lusitaniae	Not Detected	Not Detected	
Candida parapsilosis	Not Detected	Not Detected	
Candida tropicalis	Not Detected	Not Detected	
Mycoplasma genitalium	Not Detected	Not Detected	
Mycoplasma hominis	Not Detected	Not Detected	
Streptococcus agalactiae (GBS)	DETECTED - HIGH	1.00E+04	
Ureaplasma urealyticum	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 (blaKPC)	Not Detected	KPC-2-8,10,11,13-22,24-33	[7/8/2020 5:22 PM] 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	[7/8/2020 5:22 PM] Cephalosporins, Penicillins, Aztreonam
Class B metallo Beta-lactamase (blaNDM)	Not Detected	NDM (1-21)	[7/8/2020 5:22 PM] Carbapenems, Cephalosporins, Penicillins, Beta-lactamase inhibitors
<b>Fluoroquinolones</b>	<b>DETECTED</b>	qnrS 1-5,7-9; qnrB Group 1; qnrB Group 5	[7/8/2020 5:22 PM] Ciprofloxacin, Gemifloxacin, Levofloxacin, Moxifloxacin, Norfloxacin, Ofloxacin
mecA (Methicillin/Oxacillin resistance)	Not Detected	mecA	[7/8/2020 5:22 PM] Oxacillin
Sulfonamides	Not Detected	sul1; sul2; sul3	[7/8/2020 5:22 PM] Sulfadiazine, Sulfamethizole, Sulfamethoxazole, Sulfasalazine, Sulfisoxazole
Trimethoprim	Not Detected	dfrA1; dfrA5; dfrA11; dfrA17	[7/8/2020 5:22 PM] Primsol
vanA (Vancomycin)	Not Detected	vanA	[7/8/2020 5:22 PM] Vancomycin
vanB (Vancomycin)	Not Detected	vanB	[7/8/2020 5:22 PM] Vancomycin

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