

### CLINIC INFORMATION

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

### PATIENT INFORMATION

Name: Test, Copia  
 DOB: 10/28/2000 Sex: M  
 Phone: (999)999-9999  
 Address: 123 Test St BIRMINGHAM, AL 35243

### SPECIMEN INFORMATION

Lab Accession Number: ASL-12102110193  
 Date Collected: 12/09/21 1:45:00 PM  
 Date Accessioned: 12/10/2021  
 Date Reported: 12/10/2021  
 Faxed to: 18777966185

### Controls

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

Test Performed	Lab Result (4) (Qualitative Low/Medium/High)	DNA Copy Number	Comments
<b>SUMMARY UTI Pathogens Plus</b>		<b>Collection Type: Urine clean catch</b>	
Acinetobacter baumannii	DETECTED - HIGH	1.00E+05	
Morganella morganii	DETECTED - MEDIUM	1.00E+03	
Streptococcus agalactiae (GBS)	DETECTED - LOW	1.00E+02	

Class (Gene Name)	Lab Result (Qualitative)	Resistance Gene Targets Identified	Associated Resistances (Antibiotics to Avoid)
<b>SUMMARY UTI Antibiotic Resistance Markers</b>		<b>Collection Type: Urine clean catch</b>	
Class A Beta-lactamase (CTX-M-Group 1)	DETECTED	blaCTX-M-1,3,10,12,15,22,23,28; blaFEC-1	[12/10/21 2:47:13 PM] Cephalosporins, Penicillins, Aztreonam

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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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<b>UTI Pathogens Plus</b>			
<b>Collection Type: Urine clean catch</b>			
<i>Acinetobacter baumannii</i>	DETECTED - HIGH	1.00E+05	
<i>Bacteroides fragilis</i>	Not Detected	Not Detected	
<i>Candida albicans</i>	Not Detected	Not Detected	
<i>Candida dubliniensis</i>	Not Detected	Not Detected	
<i>Candida glabrata</i>	Not Detected	Not Detected	
<i>Candida krusei</i>	Not Detected	Not Detected	
<i>Candida parapsilosis</i>	Not Detected	Not Detected	
<i>Candida tropicalis</i>	Not Detected	Not Detected	
<i>Citrobacter freundii/braakii</i>	Not Detected	Not Detected	
<i>Citrobacter koseri</i>	Not Detected	Not Detected	
<i>Enterobacter cloacae</i>	Not Detected	Not Detected	
<i>Enterococcus spp.</i>	Not Detected	Not Detected	
<i>Escherichia coli</i>	Not Detected	Not Detected	[12/10/21 2:47:13 PM] Shares homology with Shigella spp.
<i>Klebsiella aerogenes</i>	Not Detected	Not Detected	
<i>Klebsiella oxytoca/michiganensis</i>	Not Detected	Not Detected	
<i>Klebsiella pneumoniae</i>	Not Detected	Not Detected	
<i>Morganella morganii</i>	DETECTED - MEDIUM	1.00E+03	
<i>Mycoplasma genitalium</i>	Not Detected	Not Detected	
<i>Mycoplasma hominis</i>	Not Detected	Not Detected	
<i>Prevotella bivia</i>	Not Detected	Not Detected	
<i>Proteus mirabilis</i>	Not Detected	Not Detected	
<i>Pseudomonas aeruginosa</i>	Not Detected	Not Detected	
<i>Serratia marcescens</i>	Not Detected	Not Detected	
<i>Staphylococcus aureus</i>	Not Detected	Not Detected	
<i>Staphylococcus epidermidis</i>	Not Detected	Not Detected	
<i>Staphylococcus saprophyticus</i>	Not Detected	Not Detected	
<i>Streptococcus agalactiae (GBS)</i>	DETECTED - LOW	1.00E+02	
<i>Streptococcus pyogenes (Group A)</i>	Not Detected	Not Detected	
<i>Ureaplasma urealyticum</i>	Not Detected	Not Detected	

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Class (Gene Name)	Lab Result (Qualitative)	Resistance Gene Targets Identified	Associated Resistances (Antibiotics to Avoid)
<b>UTI Antibiotic Resistance Markers</b>			
<b>Collection Type: Urine clean catch</b>			
Class A Beta-lactamase (blaKPC)	Not Detected	KPC-2-8,10,11,13-22,24-33	[12/10/21 2:47:13 PM] Carbapenems, Cephalosporins, Penicillins, Beta-lactamase inhibitors, Aztreonam
<b>Class A Beta-lactamase (CTX-M-Group 1)</b>	<b>DETECTED</b>	<b>blaCTX-M-1,3,10,12,15,22,23,28; blaFEC-1</b>	[12/10/21 2:47:13 PM] Cephalosporins, Penicillins, Aztreonam
Class B metallo Beta-lactamase (blaNDM)	Not Detected	NDM (1-21)	[12/10/21 2:47:13 PM] Carbapenems, Cephalosporins, Penicillins, Beta-lactamase inhibitors
Fluoroquinolones	Not Detected	qnrS 1-5,7-9; qnrB Group 1; qnrB Group 5	[12/10/21 2:47:13 PM] Ciprofloxacin, Gemifloxacin, Levofloxacin, Moxifloxacin, Norfloxacin, Ofloxacin
mecA (Methicillin/Oxacillin resistance)	Not Detected	mecA	[12/10/21 2:47:13 PM] Oxacillin
Sulfonamides	Not Detected	sul1; sul2; sul3	[12/10/21 2:47:13 PM] Sulfadiazine, Sulfamethizole, Sulfamethoxazole, Sulfasalazine, Sulfisoxazole
Trimethoprim	Not Detected	dfrA1; dfrA5; dfrA11; dfrA17	[12/10/21 2:47:13 PM] Primsol
vanA (Vancomycin)	Not Detected	vanA	[12/10/21 2:47:13 PM] Vancomycin
vanB (Vancomycin)	Not Detected	vanB	[12/10/21 2:47:13 PM] Vancomycin

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