

CLINIC INFORMATION

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

PATIENT INFORMATION

 Name: PATIENT, TEST
 DOB: 6/30/1980 Sex: M
 Phone: (205)332-3160
 Address: 2868 ACTON ROAD VESTAVIA, AL35243

SPECIMEN INFORMATION

 Lab Accession Number: S-08232210332
 Date Collected: 08/22/22 12:00:00 AM
 Date Accessioned: 08/23/2022
 Date Reported: 08/23/2022
 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.

Test Performed	Lab Result (4) (Qualitative Low/Medium/High)	DNA Copy Number	Comments
SUMMARY UTI Pathogens		Collection Type: Urine clean catch	
Citrobacter koseri	DETECTED - MEDIUM	1.00E+03	
Klebsiella pneumoniae	DETECTED - HIGH	1.00E+04	

Class (Gene Name)	Lab Result (Qualitative)	Resistance Gene Targets Identified	Associated Resistances (Antibiotics to Avoid)
SUMMARY UTI Antibiotic Resistance Markers		Collection Type: Urine clean catch	
vanA (Vancomycin)	DETECTED	vanA	[08/23/22]Vancomycin

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Page: 1

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Test Performed	Lab Result (4) (Qualitative Low/Medium/High)	DNA Copy Number	Comments
UTI Pathogens			
Collection Type: Urine clean catch			
Acinetobacter baumannii	Not Detected	Not Detected	
Bacteroides fragilis	Not Detected	Not Detected	
Citrobacter freundii/braakii	Not Detected	Not Detected	
Citrobacter koseri	DETECTED - MEDIUM	1.00E+03	
Enterobacter cloacae	Not Detected	Not Detected	
Enterococcus spp.	Not Detected	Not Detected	
Escherichia coli	Not Detected	Not Detected	[08/23/22] Shares homology with Shigella spp.
Klebsiella aerogenes	Not Detected	Not Detected	
Klebsiella oxytoca/michiganensis	Not Detected	Not Detected	
Klebsiella pneumoniae	DETECTED - HIGH	1.00E+04	
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	

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Page: 2

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Class (Gene Name)	Lab Result (Qualitative)	Resistance Gene Targets Identified	Associated Resistances (Antibiotics to Avoid)
UTI Antibiotic Resistance Markers		Collection Type: Urine clean catch	
Class A Beta-lactamase (blaKPC)	Not Detected	KPC-2-8,10,11,13-22,24-33	[08/23/22] 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	[08/23/22] Cephalosporins, Penicillins, Aztreonam
Class B metallo Beta-lactamase (blaNDM)	Not Detected	NDM (1-21)	[08/23/22] Carbapenems, Cephalosporins, Penicillins, Beta-lactamase inhibitors
Fluoroquinolones	Not Detected	qnrS 1-5,7-9; qnrB Group 1; qnrB Group 5	[08/23/22] Ciprofloxacin, Gemifloxacin, Levofloxacin, Moxifloxacin, Norfloxacin, Ofloxacin
mecA (Methicillin/Oxacillin resistance)	Not Detected	mecA	[08/23/22] Oxacillin
Sulfonamides	Not Detected	sul1; sul2; sul3	[08/23/22] Sulfadiazine, Sulfamethizole, Sulfamethoxazole, Sulfasalazine, Sulfisoxazole
Trimethoprim	Not Detected	dfrA1; dfrA5; dfrA11; dfrA17	[08/23/22] Primsol
vanA (Vancomycin)	DETECTED	vanA	[08/23/22] Vancomycin
vanB (Vancomycin)	Not Detected	vanB	[08/23/22] Vancomycin

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Page: 3

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.