



CLINIC INFORMATION

PATIENT INFORMATION

SPECIMEN INFORMATION

<b>Provider:</b> Dr. Smith	<b>Name:</b> John Jones <b>DOB:</b> 11/2/1965 <b>Gender:</b> Male	<b>Date Collected:</b> 9/7/2019 <b>Date Received by Lab:</b> 9/7/2019 <b>Run Date:</b> 9/7/2019 <b>Date Reported:</b> 9/7/2019 <b>Source:</b> SWAB
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Controls		
Patient Extraction Control <sub>1</sub>	<b>PASS</b>	(1) Endogenous control confirms sample collection, DNA/RNA extraction, and assay enzyme activity
Endogenous Positive Control <sub>1</sub>	<b>PASS</b>	(2) Positive control is synthetic inactive pathogen.
Pathogen Positive Control <sub>2</sub>	<b>PASS</b>	(3) Negative Control contains primers, probe, and enzymes with no DNA/RNA template
Pathogen Negative Control <sub>3</sub>	<b>PASS</b>	(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 (Qualitative)	Recommended Treatment
<b>Wound Pathogens</b>		
A. baumannii	Not detected	N/A
C. freundii/braakii	Not detected	N/A
Citrobacter koseri	Not detected	N/A
E. aerogenes	Not detected	N/A
E. cloacae	Not detected	N/A
B. fragilis	Not detected	N/A
Enterococcus spp. (E. faecalis/E. faecium)	Not detected	N/A
E. coli	Not detected	N/A
K. oxytoca	Not detected	N/A
K. pneumoniae	Not detected	N/A
Morganella morganii	Not detected	N/A
Proteus mirabilis	Not detected	N/A
Pseudomonas aeruginosa	Not detected	N/A
S. epidermidis	Not detected	N/A
S. saprophyticus	Not detected	N/A
Staphylococcus aureus	Not detected	N/A
MRSA	Not detected	N/A
S. pyogenes (Group A)	Not detected	N/A
Serratia marcescens	<b>Detected - HIGH</b>	treated with an aminoglycoside plus an antipseudomonal beta-lactam

Technician: David Ray

\*This test detects the presence of pathogen and must be evaluated with clinical symptoms to/ diagnose disease. All test 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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Class and (Gene Name)	Lab Result (Qualitative)	Resistane Gene Targets Identified	Associated Resistances
<b>ABX 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
vanB Vancomycin	Not detected	vanB	vancomycin
mecA	Not detected	mecA	methicillin, oxacillin
Sulfonamides	Not detected	sul1, sul2, sul3	sulfadiazine, sulfamethizole, sulfamethoxazole, sulfasalazine, sulfisoxazole
Fluoroquinones	Not detected	qnrS 1,3,4,5,7,8,9  qnrB Group 1: qnrB 1, 2, 3, 6, 13, 14, 15, 16, 17, 18, 20, 23, 26, 29, 30, 41, 42, 43, 45, 48, 49, 52, 54, 57, 58, 64, 66, 75, 77, 80  qnrB Group 5: qnrB 5, 10, 19, 36, 40, 46, 47, 50, 56, 59, 61, 62, 67, 68, 70, 71, 72	ciprofloxacin, gemifloxacin, levofloxacin, moxifloxacin, norfloxacin, ofloxacin
Trimethoprim	Not detected	dfrA1, dfrA5, dfrA11, dfrA17	Primsol

Low = <10,000 CFU/ml

Medium = 50,000-100,000 CFU/ml

High = >100,000 CFU/ml

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