

Patient: Doe, Jane  
 Date of Birth: Feb 28, 2000  
 Sex: Female

Physician: Dr. Amy Miller  
 NPI #:999999999  
 Practice: Sample  
 Philadelphia, PA

Date Collected: Feb 24, 2019  
 Date Received: Feb 25, 2019  
 Date Processed: Feb 25, 2019  
 Specimen type/Source: Swab  
 Sample ID: utiabxr1

## 1. About This Report

This UTI Assay is a urinary tract infection screen that consists of clinical, molecular tests for microorganisms implicated in UTIs.

## 2. Molecular Diagnostic Results

Urinary Tract Infection		STI			
-	<i>A. baumannii</i>	Negative	-	<i>C. trachomatis</i>	Negative
-	<i>C. albicans</i>	Negative	-	<i>N. gonorrhoeae</i>	Negative
-	<i>C. freundii</i>	Negative	-	<i>C. albicans</i>	Negative
-	<i>E. aerogenes</i>	Negative	-	<i>C. glabrata</i>	Negative
-	<i>E. cloacae</i>	Negative	-	<i>S. agalactiae</i>	Negative
H	<i>E. coli</i>	Positive			
H	<i>E. faecalis</i>	Positive			
-	<i>E. faecium</i>	Negative			
M	<i>K. oxytoca</i>	Positive			
-	<i>K. pneumoniae</i>	Negative			
-	<i>M. morgani</i>	Negative			
-	<i>P. aeruginosa</i>	Negative			
-	<i>P. mirabilis</i>	Negative			
-	<i>P. stuartii</i>	Negative			
-	<i>P. vulgaris</i>	Negative			
-	<i>S. agalactiae</i>	Negative			
M	<i>S. aureus</i>	Positive			
-	<i>S. saprophyticus</i>	Negative			

## 3. Antibiotic Treatment Options

The following table shows common treatment options for organisms assayed as present in this sample, combined with any positive or negative assayed resistance markers. "T" indicates a treatment option; "T:R" indicates a treatment option that may be affected by the detected resistance marker(s).

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Abundance	Resistances				
	<i>E. coli</i>	<i>E. faecalis</i>	<i>K. oxytoca</i>	<i>S. aureus</i>	
	H	H	M	M	
† ceftriaxone (AmpC)	-	T:R	-	-	ampC
fosfomycin (Broad-spectrum antibiotic)	S	-	-	-	Not assayed
ampicillin (Extended-Spectrum-Beta lactam)	-	S	-	S	Not assayed
amoxicillin (Extended-Spectrum-Beta lactam)	-	S	-	-	Not assayed
gentamicin (Glycoside)	-	S	-	-	Not assayed
streptomycin (Glycoside)	-	S	-	S	Not assayed
penicillin g (Narrow-Spectrum-Beta lactam)	-	-	-	S	Not assayed
nitrofurantoin (Nitrofurans)	S	S	S	S	Not assayed
linezolid (Oxazolidinone)	-	S	-	-	Not assayed
daptomycin (Peptide)	-	S	-	-	Not assayed
trimethoprim (Pyrimidines)	S	-	-	-	Not assayed
ciprofloxacin (Quinolone and fluoroquinolone)	-	-	S	-	Negative
levofloxacin (Quinolone and fluoroquinolone)	-	-	S	-	Negative
trimethoprim/sulfamethoxazole (Sulfonamides)	S	-	S	-	Not assayed
tigecycline (Tetracyclines)	-	S	-	S	Not assayed
vancomycin (Vancomycin)	-	S	-	S	Negative

S = Consider alternate treatment due to detected resistance marker(s).

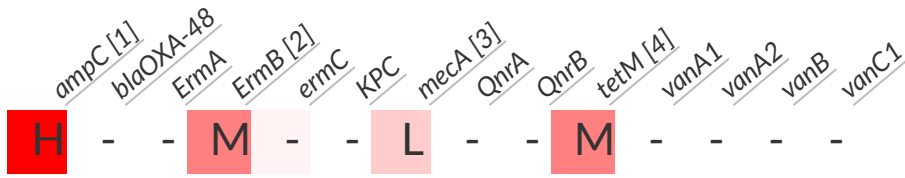
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## Antibiotic Resistance

Assayed Resistance Markers



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1. AmpC resistance
2. Macrolide resistance
3. Methicillin resistance
4. tetracycline-resistant ribosomal protection protein

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## 4. Microorganisms Tested

Organism/Assay	ctMean	Presence
<i>A. baumannii</i>	N/A	Not Detected
<i>ampC</i> ( <i>AmpC</i> resistance)	14.123	Detected
<i>blaOXA-48</i>	N/A	Not Detected
<i>Broad-range 16s</i>	16.519	Detected
<i>C. albicans</i>	N/A	Not Detected
<i>C. freundii</i>	N/A	Not Detected
<i>C. glabrata</i>	29.501	Not Detected
<i>C. trachomatis</i>	N/A	Not Detected
<i>E. aerogenes</i>	N/A	Not Detected
<i>E. cloacae</i>	N/A	Not Detected
<i>E. coli</i>	14.123	Detected
<i>E. faecalis</i>	14.123	Detected
<i>E. faecium</i>	N/A	Not Detected
<i>ErmA</i>	N/A	Not Detected
<i>ErmB</i> ( <i>Macrolide</i> resistance)	23.832	Detected
<i>ermC</i>	30.339	Not Detected
<i>K. oxytoca</i>	22.123	Detected
<i>K. pneumoniae</i>	N/A	Not Detected
<i>KPC</i>	N/A	Not Detected
<i>M. morgani</i>	N/A	Not Detected
<i>mecA</i> ( <i>Methicillin</i> resistance)	29.193	Detected
<i>N. gonorrhoeae</i>	N/A	Not Detected
<i>P. aeruginosa</i>	N/A	Not Detected
<i>P. mirabilis</i>	N/A	Not Detected
<i>P. stuartii</i>	N/A	Not Detected
<i>P. vulgaris</i>	N/A	Not Detected
<i>QnrA</i>	N/A	Not

SAMPLE

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<i>QnrB</i>	N/A	Detected
		Not Detected
<i>S. agalactiae</i>	N/A	Not Detected
		Detected
<i>S. aureus</i>	22.123	Detected
<i>S. saprophyticus</i>	N/A	Not Detected
		Detected
<i>tetM</i> (tetracycline-resistant ribosomal protection protein)	24.079	Detected
<i>vanA1</i>	N/A	Not Detected
		Detected
<i>vanA2</i>	N/A	Not Detected
		Detected
<i>vanB</i>	N/A	Not Detected
		Detected
<i>vanC1</i>	N/A	Not Detected
		Detected
<i>Xeno</i>	23.555	Detected

Limitation: An absence of detection does not imply the absence of microorganisms other than those listed or does not exclude the possibility that the target sequence is present below the limit of detection. The UTI Report does not take into consideration patient history, drug-drug interactions, drug sensitivity, and/or allergies. It is the responsibility of the physician to determine appropriate drug and dosing choices based on all available data.

Methodology: Array based assays simultaneously detect a wide array of bacteria, viruses, and parasites at analytical sensitivity

and specificity >99% Administration. The FDA has determined that such approval is not necessary, provided that the laboratory

both (1) maintains its good standing as a clinical testing laboratory with all mandatory accrediting bodies, and (2) continually demonstrates that its testing protocols and procedures achieve a high degree of analytical accuracy.

Laboratory Certification: CLIA # SAMPLE

Laboratory Director: John Doe, M D.

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