

# UTI Diagnostic Report

Genesys Diagnostics, Inc. • 8 Enterprise Lane • Phone: (860) 574-9172 • Fax: (860) 574-9264 • Web: [www.gdilabs.com](http://www.gdilabs.com) •  
CLIA #: 07D2046796 • Laboratory Director: Dr. Frank Bauer

Patient: Testing, Patient  
Date of Birth: May 26, 2021  
Sex: Male

Physician: Frank Bauer  
NPI #:1851416739  
Practice: Genesys  
Oakdale, CT  
Phone: 8605749172

Date Collected: Jun 17, 2021  
Date Received: Jun 17, 2021  
Specimen type/Source: Urine  
Sample ID: 21055192

## 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

UTI		
-	-	<i>A. baumannii</i>
-	-	<i>C. albicans</i>
+	L	<i>C. freundii</i>
-	-	<i>E. aerogenes</i>
-	-	<i>E. cloacae</i>
+	M	<i>E. coli</i>
+	H	<i>E. faecalis</i>
+	H	<i>E. faecium</i>
-	-	<i>K. oxytoca</i>
+	H	<i>K. pneumoniae</i>
-	-	<i>M. morganii</i>
-	-	<i>P. aeruginosa</i>
-	-	<i>P. mirabilis</i>
-	-	<i>P. stuartii</i>
-	-	<i>P. vulgaris</i>
-	-	<i>S. agalactiae</i>
-	-	<i>S. saprophyticus</i>

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Resistance Markers		
-	-	ACC
-	-	ACT/MIR
-	-	ampC
-	-	blaIMP
-	-	CTX-M group 1
-	-	CTX-M group 8/25
-	-	CTX-M group 9
-	-	DfrA1
-	-	DfrA5
-	-	ErmA
-	-	ErmB
+	M	ErmC
+	L	fosA
-	-	FOX
-	-	gyrA D87N
-	-	gyrA S83L
-	-	IMP-2 group
-	-	KPC
-	-	mecA
-	-	NDM
-	-	OXA-48
-	-	QnrA
-	-	QnrS
+	H	SHV
+	L	sul 1
-	-	sul 2
+	M	TEM
-	-	TEM E102K
-	-	TEM E237K
-	-	TEM G238S
-	-	TEM R162S
+	M	TetB
+	M	tetM
-	-	vanA
-	-	vanB
-	-	VIM

### 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).

#### CFU equivalents

Low (L):  $\leq 10^4$  | Medium (M):  $10^4$  to  $10^6$  | High (H):  $\geq 10^6$  CFU

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	Abundance	C. freundii	E. coli	E. faecalis	E. faecium	K. pneumoniae	Resistances
		L	M	H	H	H	
aztreonam (Beta-Lactam)		T	T	-	-	-	Negative
fosfomycin (Broad-spectrum antibiotic)		-	T	-	-	T	Not assayed
meropenem (Carbapenem)		T	T	-	-	-	Negative
doripenem (Carbapenem)		T	-	-	-	T	Negative
ertapenem (Carbapenem)		-	T	-	-	T	Negative
imipenem (Carbapenem)		T	T	-	-	-	Negative
ceftazidime/avibactam (Cephalosporin + beta lactamase inhibitors)		-	T	-	-	T	Negative
cefuroxime (Cephalosporins)		-	T	-	-	-	Negative
cefdinir (Cephalosporins)		-	T	-	-	-	Negative
cefazolin (Cephalosporins)		-	T	-	-	-	Negative
cefepime (Cephalosporins)		T	T	-	-	-	Negative
cefotaxime (Cephalosporins)		-	T	-	-	-	Negative
cefixime (Cephalosporins)		-	T	-	-	-	Negative
ceftazidime (Cephalosporins)		-	T	-	-	-	Negative
cefpodoxime (Cephalosporins)		-	T	-	-	-	Negative
ceftriaxone (Cephalosporins)		-	T	-	-	-	Negative
† amoxicillin (Extended-Spectrum-Beta lactam)		-	-	T:R	T:R	-	TEM SHV
† piperacillin/tazobactam (Extended-Spectrum-Beta lactam)		T:R	T:R	-	-	-	TEM SHV
† amoxicillin-clavulanate (Extended-Spectrum-Beta lactam)		-	T:R	-	-	-	TEM SHV
† ampicillin (Extended-Spectrum-Beta lactam)		-	T:R	T:R	T:R	-	TEM SHV

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	Abundance	C. freundii	E. coli	E. faecalis	E. faecium	K. pneumoniae	Resistances
		L	M	H	H	H	
† pivmecillinam (Extended-Spectrum-Beta lactam)	-	T:R	-	-	-	-	TEM SHV
televancin (Glycopeptides)	-	-	T	T	-	-	Not assayed
tobramycin (Glycoside)	-	T	-	-	-	-	Not assayed
gentamicin (Glycoside)	T	T	T	-	-	-	Not assayed
amikacin (Kanamycin)	-	T	-	-	-	-	Not assayed
penicillin g (Narrow-Spectrum-Beta lactam)	-	-	T	T	-	-	Negative
nitrofurantoin (Nitrofurans)	-	T	T	T	T	-	Not assayed
† ampicillin/sulbactam (Penicillin + beta lactamase inhibitors)	-	T:R	-	-	-	-	TEM SHV
† ampicillin + ceftriaxone (Penicillin + cephalosporin)	-	-	T:R	-	-	-	TEM SHV
colistin (Peptide)	-	-	-	-	T	-	Not assayed
trimethoprim (Pyrimidines)	-	T	-	-	T	-	Not assayed
levofloxacin (Quinolone and fluoroquinolone)	-	T	-	-	T	-	Negative
ciprofloxacin (Quinolone and fluoroquinolone)	T	T	-	-	T	-	Negative
† sulfamethoxazole/trimethoprim (Sulfonamides)	T:R	T:R	-	-	-	-	sul 1
† tigecycline (Tetracyclines)	-	T:R	-	-	T:R	-	tetM
vancomycin (Vancomycin)	-	-	T	T	-	-	Negative

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

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## 4. Microorganisms Tested by Genesys Diagnostics, Inc.

Organism/Assay	Ct Mean	Presence	Organism/Assay	Ct Mean	Presence
<i>A. baumannii</i>		Not Detected	<i>M. morganii</i>		Not Detected
ACC		Not Detected	<i>mecA</i>	30.249	Not Detected
ACT/MIR		Not Detected	NDM		Not Detected
<i>ampC</i>		Not Detected	OXA-48		Not Detected
<i>blaIMP</i>		Not Detected	<i>P. aeruginosa</i>		Not Detected
<i>C. albicans</i>		Not Detected	<i>P. mirabilis</i>		Not Detected
<i>C. freundii</i>	29.584	Detected	<i>P. stuartii</i>		Not Detected
CTX-M group 1		Not Detected	<i>P. vulgaris</i>		Not Detected
CTX-M group 8/25		Not Detected	<i>QnrA</i>		Not Detected
CTX-M group 9		Not Detected	<i>QnrS</i>		Not Detected
<i>DfrA1</i>		Not Detected	<i>S. agalactiae</i>		Not Detected
<i>DfrA5</i>		Not Detected	<i>S. saprophyticus</i>		Not Detected
<i>E. aerogenes</i>		Not Detected	SHV	13.412	Detected
<i>E. cloacae</i>		Not Detected	(Extended-Spectrum-Betalactamase)		
<i>E. coli</i>	24.226	Detected	<i>sul 1</i>	28.594	Detected
<i>E. faecalis</i>	14.306	Detected	(Sulfonamide 1 resistance ( <i>sul 1</i> ))		
<i>E. faecium</i>	19.344	Detected	<i>sul 2</i>		Not Detected
<i>ErmA</i>		Not Detected	TEM	23.783	Detected
<i>ErmB</i>		Not Detected	(Extended-Spectrum-Betalactamase)		
<i>ErmC</i>	24.317	Detected	TEM E102K		Not Detected
(Erythromycin resistance ( <i>ErmC</i> ))			TEM E237K		Not Detected
<i>fosA</i>	28.646	Detected	TEM G238S		Not Detected
( <i>fosA</i> )			TEM R162S		Not Detected
FOX		Not Detected	<i>TetB</i>	22.898	Detected
<i>gyrA D87N</i>		Not Detected	(Tetracycline Resistance ( <i>TetB</i> ))		
<i>gyrA S83L</i>		Not Detected	<i>tetM</i>	24.652	Detected
IMP-2 group		Not Detected	(tetracycline-resistant ribosomal protection protein)		
<i>K. oxytoca</i>		Not Detected	<i>vanA</i>		Not Detected
<i>K. pneumoniae</i>	13.734	Detected	<i>vanB</i>		Not Detected
KPC		Not Detected	VIM		Not 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 Diagnostic 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%.

**Disclaimer:** These tests were developed and characterized by Genesys Diagnostics, Inc. and interpreted by Coriell Life Sciences, 4747 South Broad Street, Building 101, Suite 222, Philadelphia, PA 19112. The tests in this UTI panel have not been approved by the Food and Drug 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.

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Laboratory Certification: CLIA # 07D2046796

Laboratory Director: Dr. Frank Bauer

SAMPLE

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