

<b>Name</b> TEST PATIENT		<b>Req Form #</b> 2410615	<b>Collected</b> 01/05/2023	<b>Client</b> Test Client
<b>Gender</b> Female	<b>Date of Birth</b> 01/01/2000	<b>Accession #</b> 2410615	<b>Received</b> 01/06/2023	<b>Address</b> 1111 First Street, Anywhere, USA 12345
<b>Patient ID</b> 1284538	<b>Race</b> Unknown	<b>Specimen Type</b> Urine Tube	<b>Report Date</b> 01/08/2023	<b>Ordering Provider</b> John Smith, MD
<b>Ordered Test(s):</b>		Complete Urinary Tract Infection Panel (UTI) + Antibiotic Resistance (Reflex) Complete Sexually Transmitted Infections (STI) Panel		
<b>Disclosed Antibiotic(s):</b>		None Disclosed		

<b>Detected STI Pathogens:</b>	None Detected
<b>Detected UTI Pathogens:</b>	Escherichia coli (5.4x10 <sup>6</sup> Orgs/mL)

### Detected UTI Pathogen Antibiotic Sensitivities

#### Escherichia coli

Antibiotic (Route)	MIC*	Interp <sup>†</sup>
Nitrofurantoin (Oral)	<=32.0000	S
Amoxicillin/Clavulanic Acid (Oral)	8.0000	S
Ofloxacin (Oral)	<=1.0000	S
Cefpodoxime (Oral)	<=1.0000	S
Cefdinir (Oral)	<=0.1200	S
Tetracycline (Oral)	<=4.0000	S
Doxycycline (Oral)	<=2.0000	S
Fosfomycin + Glucose6Phosphate (Oral)	<=32.0000	S
Ampicillin/Sulbactam (Oral)	8.0000	S
Minocycline (Oral)	<=1.0000	S
Cefuroxime (oral) (Oral)	<=4.0000	S
Cefuroxime (parenteral) (Oral)	<=4.0000	S
Imipenem (IV)	<=1.0000	S
Ertapenem (IV)	<=0.2500	S
Piperacillin/Tazobactam (IV)	<=8.0000	S
Cefazolin (IV)	2.0000	S
Amikacin (IV)	<=8.0000	S
Gentamicin (IV)	<=2.0000	S
Tobramycin (IV)	<=2.0000	S
Ciprofloxacin (Oral)	<=0.5000	I
Levofloxacin (Oral)	<=1.0000	I
Colistin (IV)	<=1.0000	I
Trimethoprim-Sulfamethoxazole (Oral)	>4.0000	R
Sulfisoxazole (Oral)	>256.0000	R
Ampicillin (Oral)	>16.0000	R
Trimethoprim (Oral)	>16.0000	R

\* MIC values are in micrograms/milliliter (µg/mL)

<sup>†</sup> Interpretation Meanings: Sensitive (S) = (Demonstrated Effectiveness) Intermediate (I) = (Incomplete Effectiveness) Resistant (R) = (No Effectiveness)

**Real Time PCR Pathogen Results**

Gram Negative	Organisms/mL**	LDL†	Protozoa	Organisms/mL**	LDL†
Acinetobacter baumannii	Not Detected	1 x 10 <sup>5</sup>	Trichomonas vaginalis	Not Detected	1 x 10 <sup>4</sup>
Citrobacter freundii	Not Detected	1 x 10 <sup>5</sup>	<b>Mycoplasmataceae</b>	<b>Organisms/mL**</b>	<b>LDL†</b>
Citrobacter koseri	Not Detected	1 x 10 <sup>5</sup>	Mycoplasma genitalium	Not Detected	1 x 10 <sup>4</sup>
Enterobacter aerogenes	Not Detected	1 x 10 <sup>5</sup>	Mycoplasma hominis	Not Detected	1 x 10 <sup>4</sup>
Enterobacter cloacae	Not Detected	1 x 10 <sup>5</sup>	Ureaplasma urealyticum	Not Detected	1 x 10 <sup>4</sup>
<b>Escherichia coli</b>	<b>5.4x10<sup>6</sup></b>	<b>1 x 10<sup>5</sup></b>	<b>STI Bacteria</b>	<b>Organisms/mL**</b>	<b>LDL†</b>
Klebsiella oxytoca	Not Detected	1 x 10 <sup>5</sup>	Chlamydia trachomatis	Not Detected	1 x 10 <sup>4</sup>
Klebsiella pneumoniae	Not Detected	1 x 10 <sup>5</sup>	Neisseria gonorrhoeae	Not Detected	1 x 10 <sup>4</sup>
Morganella morganii	Not Detected	1 x 10 <sup>5</sup>	<b>UTI Virus</b>	<b>Organisms/mL**</b>	<b>LDL†</b>
Proteus mirabilis	Not Detected	1 x 10 <sup>5</sup>	Adenovirus	Not Detected	1 x 10 <sup>5</sup>
Providencia spp	Not Detected	1 x 10 <sup>5</sup>	BK Virus	Not Detected	1 x 10 <sup>5</sup>
Pseudomonas aeruginosa	Not Detected	1 x 10 <sup>5</sup>	<b>Fungi</b>	<b>Organisms/mL**</b>	<b>LDL†</b>
Serratia marcescens	Not Detected	1 x 10 <sup>5</sup>	Candida albicans	Not Detected	1 x 10 <sup>5</sup>
<b>Gram Positive</b>	<b>Organisms/mL**</b>	<b>LDL†</b>	Candida auris	Not Detected	1 x 10 <sup>5</sup>
Aerococcus urinae	Not Detected	1 x 10 <sup>5</sup>	Candida glabrata	Not Detected	1 x 10 <sup>5</sup>
Enterococcus faecalis	Not Detected	1 x 10 <sup>5</sup>	Candida parapsilosis	Not Detected	1 x 10 <sup>5</sup>
Enterococcus faecium	Not Detected	1 x 10 <sup>5</sup>	<b>STI Virus</b>	<b>Organisms/mL**</b>	<b>LDL†</b>
Staphylococcus aureus	Not Detected	1 x 10 <sup>5</sup>	Herpes Simplex Virus	Not Detected	1 x 10 <sup>4</sup>
Staphylococcus spp. (CNS)	Not Detected	1 x 10 <sup>5</sup>			
Streptococcus agalactiae	Not Detected	1 x 10 <sup>5</sup>			
Streptococcus pyogenes	Not Detected	1 x 10 <sup>5</sup>			

\*\* Organisms/mL (Orgs/mL) are based on the calculation of target genes detected. One genome equivalent is theoretically equal to one organism.

† LDL is the Lowest Detection Level - the minimum Organisms/mL needed to be detected.

**Disclaimer:** This assay is designed to detect unique viral/microbial genes. A Negative result does not preclude the possibility of infection since the adequacy of sample collection and/or low viral/microbial burden may result in the presence of nucleic acids below the analytical sensitivity of this test method. Test results should be used along with other clinical and laboratory data in making the diagnosis. This test was developed and its performance characteristics determined and validated by Real Diagnostics. The FDA has not approved or cleared this test. However, FDA clearance or approval is not currently required for clinical use. The results are intended to be used only for clinical diagnosis.

Coagulase Negative Staphylococcus includes Staphylococcus epidermidis, Staphylococcus haemolyticus, and Staphylococcus saprophyticus.

Questions including Clinical Consultation on Results: Email [lab@realdx.com](mailto:lab@realdx.com)