



Patient Information	Physician Information	Sample Information
<b>Patient Name</b> Age/Sex : <b>57/M</b> DOB : <b>5/1/1965</b>	<b>Physician Name</b> Client Name Address 1 Address 2 <b>Phone:</b> 123.456.7890 <b>Fax:</b> 123.456.7890	Accession#: <b>UF23-00123</b> Date Collected: <b>01/28/2023</b> Date Received: <b>01/29/2023</b> Date Reported: <b>01/30/2023</b> Specimen: <b>Voided Urine</b>

**Result(S): PATHOGENIC DNA DETECTED**

**ORGANISM(S) TESTED - DETECTED** (See last page for Organism (S) Tested = Not Detected)

- Citrobacter freundii <10000 CFU/ml
- Enterobacter cloacae ≥100000 CFU/ml

Report Key	Ciprofloxacin	Doxycycline	Fosfomycin	Nitrofurantoin	Sulfamethoxazole/Trimethoprim	Ceftriaxone	Gentamicin	Imipenem	Meropenem	Cefazolin	Cefepime	Vancomycin	Piperacillin / Tazobactam	Cefoxitin	Ceftazidime-Avibactam	Cefaclor	Levofloxacin	Amoxicillin / Clavulanate	Ampicillin	Amikacin	Penicillin G	
<b>S</b> = Sensitivity Detected <b>R</b> = Resistance Detected <b>N</b> = No Reference <b>RGD</b> = Resistance Gene(s) Detected																						
<b>Formulation</b>	PO/IV	PO/IV	PO	PO	PO/IV	IM/IV	IM/IV	IV	IV	IV	IV	IV	IV	IV	IV	PO	PO/IV	PO	PO/IV	IV/IM	IV	
<b>Sensitivity result:</b>																						
<b>Citrobacter freundii</b>	S	S	S	S	S	S	S	S	S	S	S	S	S	N	N	R	R	R	R	R	R	R
<b>Enterobacter cloacae</b>	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	N	N	R	R	R	R	R
<b>Resistant Gene result :</b>						RGD				RGD						RGD			RGD		RGD	
<b>Organism(s) Tested-Detected: ✓ = Check marks are supportive data and are NOT patient specific</b>																						
<b>Citrobacter freundii</b>	✓		✓		✓		✓	✓	✓		✓		✓		✓		✓				✓	
<b>Enterobacter cloacae</b>	✓				✓		✓	✓	✓		✓		✓		✓		✓					

**Information about the table:**  
 Green Checkmarks ✓ indicate there is supportive evidence from the Sanford Guide that the antibiotic either FDA approved or off label can be used for treatment. The Sanford Guide (https://webedition.sanfordguide.com/en) provides treatment guidelines for infection by bacterial pathogens only. Treatment options are not intended to be prescriptive for any specific patient. Appropriate medical judgement should be exercised by the attending physician before prescribing a course of treatment. N = No reliable antibiotic reference is available for the detected organism. If an organism is listed in the detected section but not reflected in the sensitivity result table, the organism is either fastidious or failed to grow in vitro and cannot be tested for antibiotic susceptibility.

**PHENOTYPIC SENSITIVITY DETECTED (S)**

- Cefazolin(IV)
- Cefepime(IV)
- Cefoxitin(IV)
- Ceftriaxone(IM/IV)
- Ciprofloxacin(PO/IV)
- Doxycycline(PO/IV)
- Fosfomycin(PO)
- Gentamicin(IM/IV)
- Imipenem(IV)
- Meropenem(IV)
- Nitrofurantoin(PO)
- Piperacillin / Tazobactam(IV)
- Sulfamethoxazole/Trimethoprim(PO/IV)
- Vancomycin(IV)

**PHENOTYPIC RESISTANCE DETECTED (R)**

- Amikacin(IV/IM)
- Amoxicillin / Clavulanate(PO)
- Ampicillin(PO/IV)
- Cefaclor(PO)
- Levofloxacin(PO/IV)
- Penicillin G(IV)

**Resistant Gene(S) Tested – Detected**

- Extended-Spectrum-β-Lactamase\*

**Resistant Gene(S) Tested - Not Detected**

• Testing performed at 10 Pasteur Suite 150 Irvine, CA 92618 | Medical Director:

Patient Name	Accession Number	Procedure Date
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- Vancomycin Resistant (Glycopeptic antibiotics)
- Methicillin Resistance
- Quinolone and fluoroquinolone resistance
- Carbapenem resistance
- Sulfonamides resistance

**ORGANISM(S) TESTED - NOT DETECTED**

**Bacteria**

- Acinetobacter baumannii
- Actinobaculum schaalii
- Aerococcus urinae
- Alloscardovia omnicolens
- Citrobacter koseri
- Coagulase negative Staphylococcus\*\*
- Corynebacterium riegelii
- Enterobacter aerogenes\*\*\*
- Enterococcus faecalis
- Enterococcus faecium
- Escherichia coli
- Klebsiella oxytoca
- Klebsiella pneumoniae
- Morganella morganii
- Mycoplasma hominis
- Pantoea agglomerans
- Proteus mirabilis
- Proteus vulgaris
- Providencia stuartii
- Pseudomonas aeruginosa
- Serratia marcescens
- Staphylococcus aureus
- Streptococcus agalactiae
- Ureaplasma urealyticum
- Viridans Group Streptococci

**Fungi**

- Candida albicans
- Candida glabrata
- Candida parapsilosis
- Candida auris

**References:**  
 \* Extended Spectrum Beta-Lactamase (ESBL) Resistant genes identified confers resistance across multiple classes of antibiotics including Penicillin derivatives, cephalosporins, monobactams and carbapenems. Refer to the "Resistant Gene Detected" row to identify antibiotics for which the resistance gene may impact. Different ESBLs resistant genes will impact different beta lactam antibiotics in different levels and it is considered in the "Resistant Gene Detected" row.  
 \*\* Coagulase Negative Staphylococcus includes Staphylococcus saprophyticus, Staphylococcus epidermidis, Staphylococcus haemolyticus, (If a Coagulase Negative Staphylococcus considered as pathogen to the patient it will be reported)  
 \*\*\* Klebsiella aerogenes (formerly known as Enterobacter aerogenes)  
 \*\*\*\* Viridans Streptococci group includes Streptococcus anginosus, Streptococcus oralis and Streptococcus pasteurianus, Streptococcus mitis

**Disclaimer** This test was developed and its performance characteristics determined by EmeritusDX. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approvals is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical testing. Urine specimens received greater than 5 days post collection may give unreliable cells/mL counts due to overgrowth of microorganism(s).

**Methodology and Clinical Significance:** EmeritusDX utilizes PCR amplification for the targeted detection of agents. Pathogens are reported in ranges: 'No Pathogenic DNA Detected'. Detected: "<10,000", "10,000-50,000", "50,000-100,000", or "≥100,000" organism(s) per milliliter of urine. Detected resistance genes are shown as RGD (Resistance Gene Detected). In addition, phenotypic antibiotic susceptibility results are ascertained for the detected pathogen(s) by employing disk diffusion as a reference method for susceptibility. Antibiotic susceptibility testing is not performed for fungi or fastidious organisms. For full methodology visit [www.emeritusdx.com/methodology](http://www.emeritusdx.com/methodology).

Final Report signed by EmeritusDX Test on 01/31/2023 at 12:57 PM

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