



Patient Information	Physician Information	Sample Information
Last, First Middle. Age/Sex : 32/F DOB : 1/1/1990 Phone# : 123-456-7890	Dr. Physician, Pending Account Setup Pending - EmeritusDx Pending, Pending Pending, CA Ref Physician : Ref Physician Ref Physician Fax# : Ref Physician Fax #	Accession#: TU22-12345 Date Collected: 01/26/2022 Date Received: 01/27/2022 Date Reported: 01/28/2022 Specimen: Voided Urine

Result(S): PATHOGENIC DNA DETECTED

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

- Aerococcus urinae 10000-50000 CFU/ml
- Candida albicans 10000-50000 CFU/ml
- Candida auris <10000 CFU/ml
- Escherichia coli ≥100000 CFU/ml

Report Key	Levofloxacin	Amoxicillin / Clavulanate	Ciprofloxacin	Nitrofurantoin	Fosfomycin	Amikacin	Gentamicin	Ceftazidime-Avibactam	Cefepime	Piperacillin / Tazobactam	Cefoxitin	Cefaclor	Meropenem	Cefazolin	Imipenem	Ampicillin	Ceftriaxone	Penicillin G	Vancomycin
S = Sensitivity Detected R = Resistance Detected RGD = Resistance Gene(s) Detected																			
Formulation	PO/IV	PO	PO/IV	PO	PO	IV/IM	IM/IV	IV	IV	IV	IV	PO	IV	IV	IV	PO/IV	IM/IV	IV	IV
Sensitivity result:	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R		
Resistant Gene result :												RGD	RGD	RGD	RGD		RGD		
Organism(s) Tested-Detected: ✓ = Check marks are supportive data and are NOT patient specific																			
Aerococcus urinae	✓			✓				✓		✓		✓	✓				✓	✓	✓
Escherichia coli	✓	✓	✓				✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓

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. Empty boxes in sensitivity result row indicate that the detected organism was not tested for that specific antibiotic.

PHENOTYPIC SENSITIVITY DETECTED (S)

- Cefaclor(PO)
- Ceftazidime-Avibactam(IV)
- Levofloxacin(PO/IV)
- Meropenem(IV)
- Nitrofurantoin(PO)
- Amikacin(PO)
- Amoxicillin / Clavulanate(IV)
- Cefazolin(PO/IV)
- Cefepime(IV)
- Piperacillin / Tazobactam(PO)
- Cefoxitin(IV)
- Ciprofloxacin(PO/IV)
- Fosfomycin(PO)
- Gentamicin(IM/IV)
- Imipenem(IV)

PHENOTYPIC RESISTANCE DETECTED (R)

- Ceftriaxone(IM/IV)
- Ampicillin(IM/IV)

Resistant Gene(S) Tested – Detected

- Extended-Spectrum-β-Lactamase*

Resistant Gene(S) Tested - Not Detected

- Carbapenem resistance
- Methicillin Resistance
- Quinolone and fluoroquinolone resistance
- Vancomycin Resistant (Glycopeptic antibiotics)

Patient Name
Last, First Middle.

Accession Number
TU22-12345

Procedure Date
01/26/2022

Case Comments

ORGANISM(S) TESTED - NOT DETECTED

Bacteria

- Acinetobacter baumannii
- Actinobaculum schaalii
- Alloscardovia omnicolens
- Citrobacter freundii
- Citrobacter koseri
- Coagulase negative Staphylococcus**
- Corynebacterium riegelii
- Enterobacter aerogenes***
- Enterobacter cloacae
- Enterococcus faecalis
- Enterococcus faecium
- 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 Strep****

Fungi

- Candida glabrata
- Candida parapsilosis

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.