



PATHNOSTICS GUIDANCE[®] UTI: INTERSTITIAL CYSTITIS REPORT

Patient: First Last

DOB: 01-01-1900
 Phone: 123-456-7890
 MRN#: 1234

Provider: Best Physician, MD
 Facility: 1234 Fake St.
 Phone: 123-456-7890
 Fax: 123-456-7890

Case#: PUXI21-smp101
 Collection Method: Voided
 Date Collected: 02-03-2021
 Date Received: 02-04-2021
 Date Reported: 02-05-2021

RESULTS: PATHOGENIC DNA DETECTED

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

- *Escherichia coli* ≥100,000 cells/mL
- *Citrobacter freundii* 50,000-99,999 cells/mL
- *Morganella morganii* <10,000 cells/mL
- *Ureaplasma urealyticum* <10,000 cells/mL

LEGEND	Tetracycline	Sulfamethoxazole / Trimethoprim	Nitrofurantoin	Gentamicin	Meropenem	Vancomycin	Amoxicillin / Clavulanate	Ampicillin	Piperacillin / Tazobactam	Ampicillin / Sulbactam	Cefazolin	Ciprofloxacin	Levofloxacin	Fosfomycin	Cefaclor	Ceftriaxone	Cefepime	Ceftazidime	Cefoxitin	
S = Pooled Phenotypic Sensitivity Detected																				
R = Pooled Phenotypic Resistance Detected																				
RGD = Resistance Gene(s) Detected																				
Formulations	PO	PO/IV	PO	IM/IV	IV	IV	PO	PO/IV	IV	IV	IV	PO/IV	PO/IV	PO	PO	IM/IV	IV	IV	IV	
Pooled Phenotypic Sensitivity	S	S	S	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	
Resistance Gene(s) Detected							RGD	RGD	RGD	RGD	RGD				RGD	RGD	RGD	RGD	RGD	
MIC Results (µg/mL)	2	2/38	32	4	2	2	8/4	16	16/4	8/4	8									

Organism(s) Tested - Detected: ✓ = Check marks are supportive data and are NOT patient specific.

<i>Escherichia coli</i>	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Citrobacter freundii</i>	✓	✓	✓	✓	✓				✓			✓	✓		✓	✓	✓	✓	
<i>Morganella morganii</i>	✓	✓		✓	✓		✓		✓			✓	✓		✓	✓	✓	✓	✓
<i>Ureaplasma urealyticum</i>	✓			✓								✓	✓						

✓ = Check marks indicate situations for which antibiotic use is either FDA-approved or off label use for antibiotics is illustrated in peer review literature. References available upon request.

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Case#: PUXI21-smpl01

POOLED PHENOTYPIC SENSITIVITY DETECTED (S):

- Tetracycline (PO)
- Sulfamethoxazole/Trimethoprim (PO/IV)
- Nitrofurantoin (PO)
- Gentamicin (IM/IV)
- Meropenem (IV)
- Vancomycin (IV)
- Amoxicillin/Clavulanate (PO)
- Ampicillin (PO/IV)
- Piperacillin/Tazobactam (IV)
- Ampicillin/Sulbactam (IV)
- Cefazolin (IV)

POOLED PHENOTYPIC RESISTANCE DETECTED (R):

- Ciprofloxacin (PO/IV)
- Levofloxacin (PO/IV)
- Fosfomycin (PO)
- Cefaclor (PO)
- Ceftriaxone (IM/IV)
- Cefepime (IV)
- Ceftazidime (IV)
- Cefoxitin (IV)

RESISTANCE GENE(S) DETECTED (RGD):

- ESBL Resistance *

RESISTANCE GENE(S) TESTED - NOT DETECTED:

- Ampicillin Resistance
- Carbapenem resistance
- Methicillin Resistance
- Quino/Fluoroquinolone
- Vancomycin Resistance

ORGANISM(S) TESTED - NOT DETECTED:

BACTERIA:

- *Acinetobacter baumannii*
- *Actinotignum schaalii*
- *Aerococcus urinae*
- *Alloscardovia omnicolens*
- *Citrobacter koseri*
- *Coagulase Negative Staph Group* **
- *Corynebacterium riegellii*
- *Enterobacter Group* ***
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Klebsiella oxytoca*
- *Klebsiella pneumoniae*
- *Mycoplasma hominis*
- *Pantoea agglomerans*
- *Proteus mirabilis*
- *Providencia stuartii*
- *Pseudomonas aeruginosa*
- *Serratia marcescens*
- *Staphylococcus aureus*
- *Streptococcus agalactiae*
- *Viridans Group Strep* ****

VIRUS:

- Human Herpes Virus -1,-2 (HSV -1,-2)
- Human Herpes Virus -5 (CMV)
- Human Herpes Virus -6 (HHV-6)

YEAST:

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

References:

- * ESBL Positive for extended-spectrum beta-lactamases (ESBL) which are enzymes that confer resistance to most beta-lactam antibiotics, including penicillins, cephalosporins, and the monobactam aztreonam. Infections with ESBL producing organisms have been associated with poor outcomes
- ** Coagulase Negative Staphylococcus includes: *Staphylococcus epidermidis*, *Staphylococcus haemolyticus*, *Staphylococcus lugdunensis*, and *Staphylococcus saprophyticus*
- *** Enterobacter Group includes: *Enterobacter cloacae*, and *Klebsiella aerogenes* (formerly *Enterobacter aerogenes*).
- **** Viridians Group Strep includes: *Streptococcus anginosus*, *Streptococcus oralis*, and *Streptococcus pasteurianus*

Disclaimer: This test was developed and its performance characteristics determined by Pathnostics. 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: Microbes and resistance genes are detected through multiplex PCR. Pathogens are reported as: 'no pathogenic DNA detected'. Detected: "<10,000"; "10,000-49,999"; "50,000-99,999"; or "≥ 100,000" organism(s) per milliliter of urine. Resistance genes are either detected or not detected. Minimum inhibitory concentration (MIC) is determined by subjecting the polymicrobial population to a panel of antimicrobial agents. For full methodology visit pathnostics.com/methodology V12A-1

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