

## EASY TO READ REPORT FOR PERSONALIZED THERAPY OPTIONS

**1 Formulations:** Antibiotic formulations are listed as PO (oral), IM (intramuscular), and IV (intravenous). PO formulations are bolded to help identify oral antibiotics.

**2 Pooled Antibiotic Susceptibility Testing (P-AST™):** Personalized therapy options can be quickly identified by referencing the P-AST™ results. “S” denotes antibiotics that showed susceptibility and are listed on the left; “R” denotes antibiotics that are resistant and are listed on the right.

**3 Resistance Gene(s) Detected:** Antibiotics that have resistance detected are denoted by “RGD”.

**4 Supporting evidence:** Checkmarks are present if the antibiotic has supporting evidence or FDA approval for use with the organism.

## GUIDANCE UTI

Questions?  
Please call 800.493.4490  
or visit pathnostics.com

### 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#:   
Collection Method: Voided  
Date Collected: 02-03-2022  
Date Received: 02-04-2022  
Date Reported: 02-05-2022

### 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	Amoxicillin / Clavulanate		Ampicillin	Piperacillin / Tazobactam		Ampicillin / Sulbactam		Cefazolin	Ciprofloxacin	Levofloxacin	Fosfomycin	Vancomycin	Cefaclor	Ceftriaxone	Cefepime	Ceftazidime	Cefoxitin		
<b>S</b> = Pooled Susceptibility Detected																										
<b>R</b> = Pooled Resistance Detected																										
<b>RGD</b> = Resistance Gene(s) Detected																										
<b>1 Formulations</b>	PO	PO/IV	PO	IM/IV	IV	PO	PO/IV	IV	IV	IV	PO/IV	PO/IV	PO	IV	PO	IM/IV	IV	IV	IV	PO	IM/IV	IV	IV	IV	IV	
<b>2 Pooled Antibiotic Susceptibility Testing (P-AST™)</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	
<b>3 Resistance Gene(s) Detected</b>																										
<b>Pooled MIC Results (µg/mL)</b>	2	2/38	32	4	2	8/4	16	16/4	8/4	8																

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

<b>4</b> <i>Escherichia coli</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Citrobacter freundii</i>	✓	✓	✓	✓	✓										✓	✓	✓			✓	✓	✓	✓		
<i>Morganella morganii</i>	✓	✓		✓	✓				✓	✓					✓	✓					✓	✓	✓	✓	✓
<i>Ureaplasma urealyticum</i>	✓															✓									

✓ = Check marks indicate that (a) the FDA has determined the antibiotic is effective against the organism or notes *in vitro* data demonstrating that MIC levels are less than or equal to susceptibility breakpoints, (b) CLSI breakpoints for urine culture are reported, or (c) there is sufficient evidence proving the antibiotic's use. References available on request. Check mark information may change as new evidence on antibiotic efficacy is continuously being published. Note that *in vitro* results may not apply *in vivo*. The health care provider should exercise appropriate medical judgment before prescribing a course of treatment.

## TEST DETAILS

### ORGANISMS TESTED:

#### BACTERIAL/YEAST ORGANISMS

- *Acinetobacter baumannii*
- *Actinotignum schaalii*
- *Aerococcus urinae*
- *Alloscardovia omnicolens*
- *Candida albicans*
- *Candida auris*
- *Candida glabrata*
- *Candida parapsilosis*
- *Citrobacter freundii*
- *Citrobacter koseri*
- *Corynebacterium riegelii*
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Escherichia coli*
- *Gardnerella vaginalis*
- *Klebsiella oxytoca*
- *Klebsiella pneumoniae*
- *Morganella morganii*
- *Mycoplasma hominis*
- *Pantoea agglomerans*
- *Proteus mirabilis*
- *Providencia stuartii*
- *Pseudomonas aeruginosa*
- *Serratia marcescens*
- *Staphylococcus aureus*
- *Streptococcus agalactiae*
- *Ureaplasma urealyticum*

#### BACTERIAL GROUPS

- Coagulase-Negative *staphylococci*\*
- Viridans group *streptococci*†
- *Enterobacter* group‡

#### ESBL PHENOTYPE

Positive results presented with *E. coli*, *Klebsiella*, *Enterocobacter*, *Citrobacter*, *Proteus*, *Acinetobacter*, or *Pseudomonas* are detected.

#### MRSA PHENOTYPE§

MRSA phenotypic assay will be performed when *Staphylococcus aureus* and the *mecA* gene are detected.

### POOLED ANTIBIOTIC SUSCEPTIBILITY TESTING (P-AST™) INCLUDES:

- Ampicillin (PO/IV)
- Ampicillin/Sulbactam (IV)
- Amoxicillin/Clavulanate (PO)
- Cefaclor (PO)
- Cefazolin (IV)
- Cefepime (IV)
- Cefoxitin (IV)
- Ceftazidime (IV)
- Ceftriaxone (IM/IV)
- Ciprofloxacin (PO/IV)
- Fosfomycin (PO)
- Gentamicin (IM/IV)
- Levofloxacin (PO/IV)
- Meropenem (IV)
- Nitrofurantoin (PO)
- Piperacillin/Tazobactam (IV)
- Sulfamethoxazole/Trimethoprim (PO/IV)
- Tetracycline (PO)
- Vancomycin (IV)

### ANTIBIOTIC RESISTANCE GENE CLASSES:

- Ampicillin
- Carbapenem
- Extended Spectrum Beta-Lactamase
- Methicillin
- Quinolone/Fluoroquinolone
- Vancomycin

\*Coagulase-Negative *staphylococci*: *Staphylococcus epidermidis*, *Staphylococcus haemolyticus*, *Staphylococcus lugdunensis*, *Staphylococcus saprophyticus*

† Viridans group *streptococci*: *Streptococcus anginosus*, *Streptococcus oralis*, *Streptococcus pasteuranus*

‡ *Enterobacter* group: *Klebsiella aerogenes* (formally known as *Enterobacter aerogenes*), *Enterobacter cloacae*

§ Add-on test