

### CLINIC INFORMATION

Name: County Urology  
 Address: 1234 Main St.  
 Provider: Doe, John MD

### PATIENT INFORMATION

Name: Doe, Jane M.  
 DOB: 1/11/1950      Gender: F  
 Phone: (672)123-4567  
 Address: 12345 Main St.

### SPECIMEN INFORMATION

Accession: SDX001  
 Date Collected: 12/31/2023 10:48  
 Date Received: 01/01/2024  
 Date Reported: 01/01/2024 14:00  
 Diagnostic code: N39.0

Controls	
Patient Extraction Control 1	PASS
Endogenous Positive Control 2	PASS
Pathogen Positive Control 2	PASS
Pathogen Negative Control 3	PASS

(1) Endogenous control confirms sample collection, DNA/RNA extraction, and assay enzyme activity  
 (2) Positive control is synthetic inactive pathogen  
 (3) Negative control contains primers, probe, and enzymes with no DNA/RNA template  
 (4) A "Detected" result indicates the presence of a pathogen (99.99% confidence) above the assay cutoff.  
 Assay cutoff is represented by CFU (bacteria), PFU (viruses) or Copy Number (DNA)

## UTI+ w/ABX Resistance Panel Sample Type: Clean catch urine

GRAM NEGATIVE	
Test Performed	Result
Acinetobacter baumannii	Not Detected
Bacteroides fragilis	Not Detected
Citrobacter freundii/braakii	Not Detected
Citrobacter koseri	Not Detected
Enterobacter cloacae	Not Detected
Escherichia coli	Not Detected
Klebsiella aerogenes	Not Detected
Klebsiella oxytoca/michiganensis	Not Detected
<b>Klebsiella pneumoniae</b>	<b>Detected-Low</b>
Morganella morganii	Not Detected
Mycoplasma hominis	Not Detected
Prevotella bivia	Not Detected
Proteus mirabilis	Not Detected
Pseudomonas aeruginosa	Not Detected
Serratia marcescens	Not Detected
Ureaplasma urealyticum	Not Detected

GRAM POSITIVE	
Test Performed	Result
Enterococcus spp	Not Detected
Mycoplasma genitalium	Not Detected
Staphylococcus aureus	Not Detected
Staphylococcus epidermidis	Not Detected
Staphylococcus saprophyticus	Not Detected
Streptococcus agalactiae	Not Detected
Streptococcus pyogenes	Not Detected

  

FUNGI	
Test Performed	Result
Candida albicans	Not Detected
Candida dubliniensis	Not Detected
Candida glabrata	Not Detected
Candida krusei	Not Detected
Candida parapsilosis	Not Detected
Candida tropicalis	Not Detected

ANTIBIOTIC RESISTANCE		
Marker	Result	Comments
<b>Class A β-lactamase (CTX-M Group 1)</b>	<b>Detected-Low</b>	
Class A β-lactamase (KPC)	Not Detected	
Class B metallo-β-lactamase (NDM)	Not Detected	
Methicillin (mecA)	Not Detected	
<b>Quinolone and Fluoroquinolone RM (Qnr)</b>	<b>Detected-Low</b>	
<b>Sulfonamides (Sul)</b>	<b>Detected-Low</b>	
Trimethoprim (dfrA)	Not Detected	
Vancomycin (vanA)	Not Detected	
Vancomycin (vanB)	Not Detected	

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**PATHOGENS DETECTED**

**Klebsiella pneumoniae** (Low)

**RESISTANCE DETECTED**

**ABX Classes:** Penicillins, NS  
 Cephalosporins, Classic BL inhibitors,  
 Monobactams, Fluoroquinolones, TMP-SMX  
**RM:** CTX-M-Group 1, qnr, Sul

**TOP ALGORITHMIC MATCHES**

**Fosfomycin**<sup>1</sup> (3 g x 1 dose)  
**Plazomicin** (15 mg/kg q24h)  
**Ertapenem** (1 g q24h 10d)  
**Imipenem** (500 mg q6h)  
**Amikacin** (15 mg/kg q24h)

1. not suggested for pyelonephritis

RISK	PATHOGENICITY	K. pneumoniae		ALGORITHMIC RESULTS
	ANTIMICROBIALS			
	Fosfomycin		✓	Fosfomycin
	Plazomicin		✓	Plazomicin
	Ertapenem		✓	Ertapenem
	Imipenem		✓	Imipenem
	Cefiderocol		+	Cefiderocol
	Caz-avibactam		+	Caz-avibactam
	Mer-vaborbactam		+	Mer-vaborbactam
	Imi-relabactam		+	Imi-relabactam
	Colistin		+	Colistin
	Tigecycline		+	Tigecycline
	Amikacin		⚠	Amikacin
	Meropenem		⚠	Meropenem
	Cef-tazobactam		⚠	Cef-tazobactam
	Gentamicin		-	
	Tobramycin		-	
	Nitrofurantoin		-	
	TMP-SMX		✗	
	Cephalexin		✗	
	Amox-clavulanate		✗	
	Cefdinir		✗	
	Cefadroxil		✗	

- ✓ Recommended + Active (ER\* ≤ 10%)
- ✓ Recommended + Var. Active (ER\* 10-20%)
- ⊕ Active (ER\* ≤ 10%)
- ⊕ Var. Active (ER\* 10-20%)
- ⚠ Limited Activity (ER\* 20-30%)
- ✗ Resistance Detected
- ER\* > 30% or N/A

\*Estimated resistance (ER) is based on local resistance data, adjusted to reflect current testing results. Factors considered include RM expression, resistance determinants, and markers tested in the current assay.

**PATHOGENICITY: Bacteria + Detected Resistance Markers**

- Low: Common commensal or contaminant. Treat only if symptomatic. If more pathogenic bacteria is present, it may be excluded from algorithmic results (shaded column).
- Medium-low: Likely to cause uncomplicated infections.
- Medium-high: May cause complicated or harder-to-treat infections.
- High: Likely to cause complicated or difficult-to-treat infections due to multiple resistances.
- Critical: Likely to present MDR with few treatment options. For complicated infections, infectious disease consultation is recommended.

**ANTIBIOTICS: Adverse Effects Risk**

- Low: Generally well-tolerated.
- Medium-low: Some risk of adverse effects.
- Medium-high: Elevated risk of adverse effects.
- High: Significant risk, may include FDA boxed warnings.
- Highest: Greatest risk of adverse effects.
- Precious Antibiotic: Use only if out of options.

For questions or comments, please scan the QR code, or go to [igniteabx.com/contact/](https://igniteabx.com/contact/)

For educational purposes only: The information provided in this report is not intended as a recommendation for treatment. It is generated algorithmically from testing results and does not account for all patient-specific variables. Please consider all relevant factors before prescribing a treatment regimen.

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