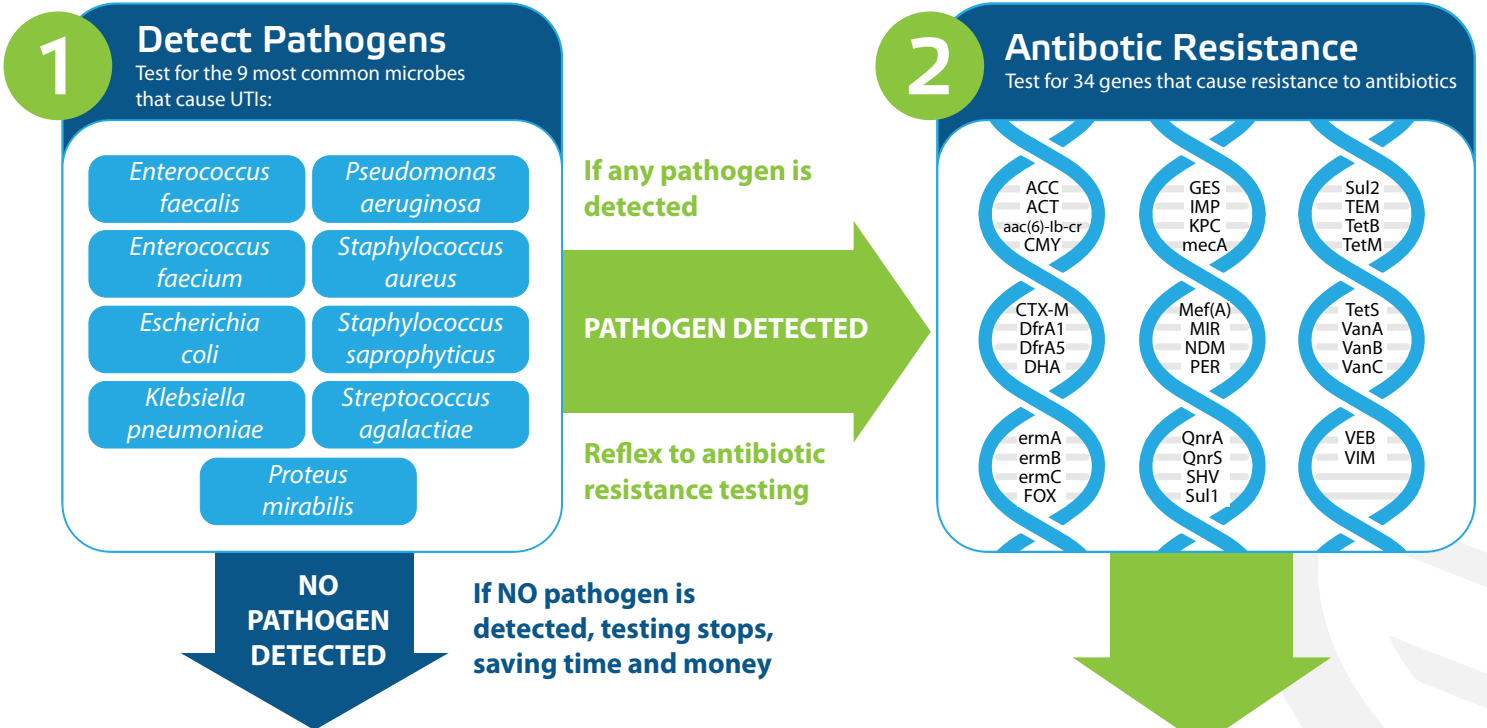


Timely, accurate and actionable molecular diagnostics results

Precise Molecular UTI Complete Results in 24 Hours



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800-454-2137

Laboratory Testing Results Report

ORDER: CYX100-000074-003299-3299

Patient	Specimen	Ordering
Williams, Jennifer G. DOB: 07/06/1976 Gender: Female Address: 323 Independence Ln. Memphis, TN 38107 Phone: 901-867-5309	Lab ID: SPCR-21221-000090 Client ID: A45D-2284-0046 Reference: MNF_M123456 Collected: 12/19/2023 Received: 12/20/2023 Reported: 12/21/2023	Crusher, Beverly M.D. 555 Medical Plaza, Suite 900 Memphis, TN 38101 Phone: 901-555-4545

ORDERED ITEMS:
CYX100-Urine PCR Quantitative - Base Panel w/ Anti-Microbial Resistance-Reflex Testing

PATHOGEN RESULTS

Pathogen	Present	Copyes/ul
<i>Enterococcus faecalis</i> or <i>faecium</i>	Not Detected	
<i>Escherichia coli</i>	Not Detected	
<i>Klebsiella pneumoniae</i>	Not Detected	
<i>Proteus mirabilis</i>	Not Detected	
<i>Pseudomonas aeruginosa</i>	Not Detected	
<i>Staphylococcus aureus</i>	Not Detected	
<i>Staphylococcus saprophyticus</i>	Not Detected	
<i>Streptococcus agalactiae</i>	Not Detected	

Chronetyx Laboratories, CLIA# 44D229326, Abolaji Azubuike, MD, Laboratory Director

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ANTIBIOTIC RESISTANCE

Antibiotic Class/Target	Resistant Gene	Presence
Beta-Lactams Carbapenem Carbapenem Resistance to Carbapenem antibiotics Carbapenem Resistance to Imipenem/meropenem antibiotics	IMP, NDM, VIM, TEM	DETECTED
Extended Spectrum Beta Lactamase (ESBL) Carbapenem Resistance to Meropenem/Imipenem/meropenem antibiotics	CTX-M, SHV	DETECTED
Glycopeptides Carbapenem Resistance to Glycopeptide antibiotics	VanA, VanB, VanC	DETECTED
Macrolides, Lincosamides, Streptogramins Carbapenem Resistance to Macrolide/Lincosamide/Streptogramin antibiotics	ermA, ermB, ermC, mecA	DETECTED
Multitargeted Resistance Carbapenem Resistance to Vancomycin and beta-lactam antibiotics except carbapenem	blaK4	DETECTED
Monoamides, Beta-Lactam Carbapenem Resistance to Beta-Lactam antibiotics	ACC, ACT, FOX, MIR	DETECTED
Quinolone Resistance Carbapenem Resistance to Quinolone antibiotics	QnrA, QnrS, AAC(6)-Ib-cr	DETECTED
Sulfonamides Carbapenem Resistance to Sulfonamide antibiotics	Sul1, Sul2	DETECTED
Tetracycline Resistance Carbapenem Resistance to Tetracycline antibiotics	TetB, TetM	DETECTED

Chronetyx Laboratories, CLIA# 44D229326, Abolaji Azubuike, MD, Laboratory Director

Benefits of Reflex Testing

Benefits of Reflex Testing

- ✓ **Improved Diagnosis:** Provides clinicians with a clearer and quicker diagnosis by immediately following up on abnormal initial results
- ✓ **Better Patient Care:** Enhances patient care by ensuring that necessary additional tests are conducted promptly
- ✓ **Increased Efficiency:** Saves time by avoiding the need for a separate doctor's order
- ✓ **More Savings:** Reflex testing decreases the cost of lab testing, which might be a consideration for both patients and healthcare systems

Our test detects the antimicrobial resistance genes associated with **12 classes of commonly used antibiotics**

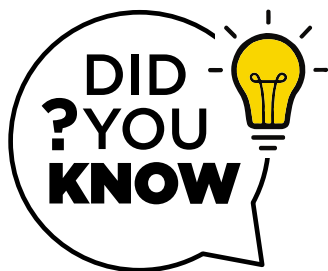
Antibiotics Classes

Antibiotics Classes	Includes antibiotics such as...
Aminoglycoside	1 gentamicin, tobramycin, and amikacin
Carbapenem	2 imipenem, meropenem, and ertapenem
Dihydrofolate Reductase Inhibitor	3 trimethoprim
Glycopeptide	4 vancomycin and teicoplanin
Macrolide	5 erythromycin, clarithromycin, and azithromycin
Lincosamide	6 clindamycin and lincomycin
Streptogramin	7 quinupristin / dalfopristin
Monobactam	8 aztreonam
Beta-Lactam	9 penicillins, cephalosporins, carbapenems, and monobactams
Quinolone	10 ciprofloxacin, levofloxacin, and moxifloxacin
Sulfonamide	11 sulfamethoxazole
Tetracycline	12 tetracycline, doxycycline, and minocycline

Further, our test evaluates an additional two important categories for Antimicrobial Resistance:

Extended Spectrum Beta-Lactamase (ESBL): This refers to a type of enzyme produced by certain bacteria, which confers resistance to many beta-lactam antibiotics.

Methicillin Resistance: This refers to a resistance mechanism, particularly in *Staphylococcus aureus* (MRSA), making it resistant to methicillin and other beta-lactam antibiotics.



You receive personalized molecular results in less than one day from receipt at lab

PCR detects 93.4% of polymicrobial infections and culture only detects 22.3% of polymicrobial infections¹

Up to 52% of positive UTI cases are polymicrobial. Culture may be resulted as "contaminated" or "mixed flora", we identify each specific pathogen in the specimen

¹The Clinical Urine Culture: Enhanced Techniques Improve Detection of Clinically Relevant Microorganisms. J Clin Microbiol. 2016 May;54(5):1216-22. doi: 10.1128/JCM.00044-16. Epub 2016 Mar 9. PMID: 26962083; PMCID: PMC4844725.

Ready to Get Started?
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info@chronetyx.com

