

PATIENT	SPECIMEN	PROVIDER
Name: John Doe DOB (MM/DD/YYYY): 12/23/2000 Gender: Male Accession: TestingUTI	Specimen: Urine Collection: 12/24/2024 Received: 12/25/2024 Reported: 07/28/2025	Name: Dr. Testing Testing Phone: (123)-456-7890 Address: 123 Street, Irvine, CA 92606
Reported Allergies: Quinolone		

POSITIVE

RESULT SUMMARY

Pathogens Detected:

- **Escherichia coli** >100,000 CFU/mL
- **Pseudomonas aeruginosa** >100,000 CFU/mL
- **Klebsiella aerogenes** 10,000-100,000 CFU/mL
- **Ureaplasma parvum** 10,000-100,000 CFU/mL

Antibiotic Resistance Genes (ABR) Detected:

- Carbapenem
- Penicillin & B-lactam

SUGGESTED TREATMENT

Drug of Choice:	Route:	Dosage Recommendation:	Remarks and Warnings:
Trimethoprim/Sulfamethoxazole	PO	Acute simple cystitis: 1 double strength tab (160/800mg) PO BID x 3 days (female) x 7 days (male). Complicated infection: 1 DS tab PO BID x 14 days. Stenotrophomonas infection: 8-12mg/kg/day PO divided q8-12hr *Requires renal adjustment if applicable.	No hepatic adjustment necessary but if drug induced liver injury is suspected then consider d/c
Susceptible Pathogens: Escherichia coli, Klebsiella aerogenes.			
Alternative / Combination:	Route:	Dosage Recommendation:	Remarks and Warnings:
Nitrofurantoin	PO	Acute simple cystitis treatment: Macrobid 100mg PO BID x 5 days (female, x7 days if pregnant) x 7 days (male). Furadantin or Microdantin: 50-100mg PO q6hrs x 5 days (female) x 10 days (male) *Requires renal adjustment if applicable.	There are 2 forms of nitrofurantoin and dosing will differ depending on brand. This medication is CONTRAINDICATED in CrCl 30-60 but there is limited data that a short course for acute treatment in eGFR 30-60 ml/min is safe and effective. At CrCl<30 - avoid use!
Susceptible Pathogens: Escherichia coli, Klebsiella aerogenes.			
Doxycycline	PO	100-200 mg/day PO in 1-2 divided doses. Mycoplasma genitalium: 100 mg PO 2 BID x 7 days, followed by azithromycin 1000 mg PO x1, followed by 500 mg PO daily for 3 additional days	Not currently indicated for UTI but has activity against various bugs which may be cause of UTI - not first line. Doxycycline is not recommended in pregnancy. Can use moxifloxacin PO 400 mg daily x7 days instead of azithromycin for mycoplasma genitalium if macrolide resistant. Treat as macrolide resistant if testing unavailable for mycoplasma genitalium.
Susceptible Pathogens: Ureaplasma parvum.			
Not Tested For ABR:	Route:	Dosage Recommendation:	Remarks and Warnings:
Aztreonam	IV	1-2 g IV q8hrs *Requires renal adjustment if applicable.	Max 1g per dose in pregnant patients. Switch to appropriate oral regimen once symptoms improve if possible.
Susceptible Pathogens: Pseudomonas aeruginosa.			

This report provides general educational health information and is not a substitute for professional medical advice, diagnosis, or treatment. Medication decisions should be made by licensed healthcare professionals. Recommendations are based solely on laboratory results identifying pathogens and resistance genes, interpreted using LDSRx software by Medical Database Inc (www.medicaldatabase.com). LDSRx software has not been evaluated by the FDA but is validated to interpret lab results according to published guidelines. It remains the responsibility of the healthcare provider to determine the best course of treatment for the patient. Commonly referenced sources: Sanford Guide, Lexicomp, and other published literature available on request.

In patients reporting an allergy to a medication, a detailed history should be obtained to evaluate the nature of the allergic reaction. An individualized risk:benefit assessment must be performed in situations in which mild reactions were noted or when no suitable alternative therapy exists.

For assistance with results interpretation, drug dosage inquiries, or technical support, please contact the Medical Database team at 949-208-0521 or via email at info@medicaldatabase.com.

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PATHOGEN RESULT SUMMARY				
PATHOGEN	RESULTS	MICROBIAL LOAD	GRADE	REFERENCE RANGE
GRAM NEGATIVE				
Acinetobacter baumannii	Not Detected	-	-	Not Detected
Citrobacter freundii	Not Detected	-	-	Not Detected
Enterobacter cloacae	Not Detected	-	-	Not Detected
→Escherichia coli	Detected	>100,000	High	Not Detected
→Klebsiella aerogenes	Detected	10,000-100,000	Medium	Not Detected
Klebsiella oxytoca	Not Detected	-	-	Not Detected
Klebsiella pneumoniae	Not Detected	-	-	Not Detected
Morganella morganii	Not Detected	-	-	Not Detected
Proteus mirabilis	Not Detected	-	-	Not Detected
Proteus vulgaris	Not Detected	-	-	Not Detected
Providencia stuartii	Not Detected	-	-	Not Detected
→Pseudomonas aeruginosa	Detected	>100,000	High	Not Detected
Serratia marcescens	Not Detected	-	-	Not Detected
→Ureaplasma parvum	Detected	10,000-100,000	Medium	Not Detected
Ureaplasma urealyticum	Not Detected	-	-	Not Detected
GRAM POSITIVE				
Aerococcus urinae	Not Detected	-	-	Not Detected
Enterococcus faecalis	Not Detected	-	-	Not Detected
Enterococcus faecium	Not Detected	-	-	Not Detected
Staphylococcus aureus	Not Detected	-	-	Not Detected
Staphylococcus saprophyticus	Not Detected	-	-	Not Detected
Streptococcus agalactiae	Not Detected	-	-	Not Detected
FUNGI				
Candida albicans	Not Detected	-	-	Not Detected
Candida auris	Not Detected	-	-	Not Detected
Candida glabrata	Not Detected	-	-	Not Detected
Candida krusei	Not Detected	-	-	Not Detected
Candida parapsilosis	Not Detected	-	-	Not Detected
Candida tropicalis	Not Detected	-	-	Not Detected

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ANTIBIOTIC RESISTANCE GENOTYPING RESULT			
ANTIBIOTIC RESISTANT GENE	ANTIBIOTIC CLASS	RESULTS	REFERENCE RANGE
aac(6)-Ib-cr	Aminoglycoside	Not Detected	Not Detected
→blaOXA-48, blaKPC	Carbapenem	Detected	Not Detected
Linked Pathogen(s): Escherichia coli, Klebsiella aerogenes, Pseudomonas aeruginosa.			
KPC	Carbapenem	Not Detected	Not Detected
blaACT, DHA, GES	Cephalosporin	Not Detected	Not Detected
fosA	Fosfomycin	Not Detected	Not Detected
nfsA	Nitrofurantoin	Not Detected	Not Detected
→TEM	Penicillin & B-lactam	Detected	Not Detected
Linked Pathogen(s): Escherichia coli, Klebsiella aerogenes, Pseudomonas aeruginosa.			
qnr	Quinolone	Not Detected	Not Detected
tetM, S	Tetracycline	Not Detected	Not Detected
dfrA	Trimethoprim / Sulfamethoxazole	Not Detected	Not Detected
sul	Trimethoprim / Sulfamethoxazole	Not Detected	Not Detected
ANTIBIOTIC RESISTANCE GENE TESTED BUT NOT APPLICABLE			
ermA, ermB, emrC	Macrolide/Clindamycin	Not Applicable	Not Detected
mecA	Methicillin	Not Applicable	Not Detected
vanA, B, C1	Vancomycin	Not Applicable	Not Detected
"Not Applicable" indicates that these ABR gene(s) were not linked to any of the detected pathogen(s). Genotyping of antibiotic resistance (ABR) gene was performed directly on the submitted specimens without isolating the bacteria in culture and may not be linked to specific pathogens. In polymicrobial infections, the assay may not be able to differentiate which organism carries the detected ABR gene. Genotype resistance may not always match phenotypic susceptibility; interpret results with caution in the clinical context. Repeat testing as clinically necessary.			

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ANTIBIOTIC LIST AND RECOMMENDATIONS			
ANTIBIOTIC CLASS	RESULT	RECOMMENDED	NOT RECOMMENDED
Aminoglycoside	Not Detected	Amikacin Erythromycin Gentamicin Kanamycin Neomycin Netilmicin Paromomycin Plazomicin Streptomycin Tobramycin	-
→ Carbapenem	Detected	-	Biapenem Doripenem Ertapenem Imipenem/Cilastatin Imipenem/Cilastatin/Relebactam Meropenem Meropenem/Vaborbactam Panipenem/Betamipron
→ Cephalosporin	Carbapenem Detected	-	Cedazolin Cefaclor Cefadroxil Cefaloglycin Cefalonium Cefaloridine Cefalotin Cefamandole Cefapirin Cefatrizine Cefazaflur Cefazedone Cefazolin Cefdinir Cefepime Cefepime/Enmetazobactam Cefiderocol Cefixime Cefmetazole Cefonicid Cefotaxime Cefotetan Cefoxitin Cefpodoxime Cefprozil Cefroxadine Ceftaroline Ceftazidime Ceftazidime/Avibactam Ceftezole Ceftibuten Ceftolozane/Tazobactam Ceftriaxone Cefuroxime Cephalixin Cephradine
Fosfomycin	Not Detected	Fosfomycin	-

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Macrolide/Clindamycin	Not Applicable	Azithromycin Clarithromycin Clindamycin Fidaxomicin	-
Methicillin	Not Applicable	Methicillin Nafcillin Oxacillin	-
Nitrofurantoin	Not Detected	Nitrofurantoin	-
→ Penicillin & B-lactam	Carbapenem Detected	-	Amoxicillin Amoxicillin/Clavulanate Ampicillin Ampicillin/Sulbactam Carbenicillin Dicloxacillin Penicillin Penicillin G Penicillin VK Piperacillin Piperacillin/Tazobactam Sulbactam/Durlobactam Ticarcillin
→ Quinolone	Allergy Reported	-	Cinoxacin Ciprofloxacin Delafloxacin Flumequine Gatifloxacin Gemifloxacin Levofloxacin Lomefloxacin Moxifloxacin Nalidixic acid Norfloxacin Ofloxacin Sparfloxacin Trovafloxacin
Tetracycline	Not Detected	Doxycycline Eravacycline Minocycline Omadacycline Oxytetracycline Sarecycline Tetracycline	-
Trimethoprim / Sulfamethoxazole	Not Detected	Sulfisoxazole Trimethoprim Trimethoprim/Sulfamethoxazole	-
Vancomycin	Not Applicable	Vancomycin	-