



Molecular PCR Summary Lab Report

Final
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CLINIC INFORMATION

Name: Urologic Clinics of California
Address: 1111 Main St., Sacramento CA
Provider: James Smith, M.D.

PATIENT INFORMATION

Name: Doe, Jane
DOB: 1/1/1950 Phone: Gender: F
Address:

SPECIMEN INFORMATION

Accession: MVP001
Date Collected: 02/22/2024 09:33
Date Received: 02/22/2024
Date Reported: 02/22/2024 13:06
Diagnostic code: N39.0,R35.0,R30.0

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	Detected-High
Klebsiella aerogenes	Not Detected
Klebsiella oxytoca/michiganensis	Not Detected
Klebsiella pneumoniae	Not Detected
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
Class A β -lactamase (CTX-M Group 1)	Not Detected	
Class A β -lactamase (KPC)	Not Detected	
Class B metallo- β -lactamase (NDM)	Not Detected	
Methicillin (mecA)	Not Detected	
Quinolone and Fluoroquinolone RM (Qnr)	Not Detected	
Sulfonamides (Sul)	Not Detected	
Trimethoprim (dfrA)	Not Detected	
Vancomycin (vanA)	Not Detected	
Vancomycin (vanB)	Not Detected	



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PATHOGENS DETECTED

- **Escherichia coli**



RESISTANCE DETECTED TO:

None



ALGORITHMIC ABX MATCHES:

- Nitrofurantoin
- TMP-SMX
- Fosfomycin
- Cefixime
- Amoxicillin-Clavulanate
- Ceftriaxone
- Ciprofloxacin
- Gentamicin
- Imipenem-Cilastatin
- Ceftazidime-Avibactam
- Meropenem-Vaborbactam
- Ceftolozane-Tazobactam
- Imipenem-Cilastatin-Relebactam
- Cefiderocol

Pathogens Detected

- **Escherichia coli**

Aerobic, gram-negative bacteria. The most common cause of UTIs. Antibiotic-resistant E. Coli is common in complicated and recurrent UTIs. Commonly resistant to cephalosporins, beta-lactam inhibitors, and carbapenems. PLEASE NOTE: Additional mechanisms of antibiotic resistance (efflux pumps, decreased membrane permeability, etc.) may confer intrinsic ABX resistance even in the absence of the regular markers (negative PCR results).

Possible Treatments:

- Nitrofurantoin
- TMP-SMX
- Fosfomycin
- Cefixime
- Amoxicillin-Clavulanate
- Ceftriaxone, Cefepime
- Ciprofloxacin, Levofloxacin
- Gentamicin, Tobramycin, Plazomicin
- Imipenem-Cilastatin, Meropenem
- Ceftazidime-Avibactam
- Meropenem-Vaborbactam
- Ceftolozane-Tazobactam
- Imipenem-Cilastatin-Relebactam
- Cefiderocol

DISCLAIMER: Any information contained in this report does not in any way constitute a recommendation for treatment. The report is an algorithmic calculation based only on the antibiotics of choice for the pathogens and resistance markers presently identified. It does not take into consideration: other possible pathogens or antibiotic resistance not presently tested, patient's age, allergies, underlying medical conditions, possible drug interactions or antibiotic stewardship guidelines. USE FOR EDUCATIONAL PURPOSE ONLY!



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