

URINARY TRACT INFECTIONS

(UTI)





WELCOME TO **ALLIANCE™**

At ALLIANCE™ Laboratories, we prioritize quality and technology to ensure the highest standards in diagnostic testing. Our commitment to quality begins with our state-of-the-art laboratory facilities equipped with the latest advancements in diagnostic technology.

ALLIANCE™ Laboratories offers a comprehensive range of advanced diagnostic services:

- **CLINICAL TESTING**
- **PATHOLOGY TESTING**
- **MOLECULAR TESTING**
- **TOXICOLOGY TESTING**
- **GENETIC TESTING**

By integrating advanced technology with stringent quality control measures, ALLIANCE™ Laboratories delivers exceptional accuracy and reliability in every test we perform. We are dedicated to advancing healthcare through innovation, ensuring that patients receive the highest level of care and service.

INSURANCE LIST

INSURANCES OUR LABORATORY **ACCEPTS**

1199 National Benefit Fund	ConnectiCare	Medicaid
AARO - Prudential	CoreSource	Meritain Health
Aetna HMO	Emblem Health	MetroPlusHealth Plan
Aetna PPO	Empire Plan (United Healthcare)	Multiplan
AliCare	Fidelis	MVP Healthcare
All Union Local Insurances	Florida Blue	NALC Health Benefit
Amalgamated	GEHA	Oscar Health Insurance
American Plan Administrators	GHI	Oxford HMO
American Progressive Life (Today's Options)	Great West Health Care PPO	Oxford PPO
AmeriHealth PPO	Harvard Pilgrim Healthcare	Preferred Care
APWU	Elderplan	POMCO
AvMed	HCPIPA (Healthcare Partners)	QualCare
BayCare	Health First	Railroad Medicare
Blue Cross Blue Shield	Health Republic (Freelancers)	Senior Whole Health
Brokerage Concepts	HIP	Sieba Ltd
Capital District (CDPHP)	Hudson Health Plan	Touchstone
Capital Health Plan	Humana	Tricare
Care Plus	Horizaon BCBS	TRPN
Champ VA	Liberty Health Advantage	UniCare PPO
Christian Brothers Employee Benefit Fund	Local Unions	United Healthcare (Excluding Community Plan)
Cigna HMO	MagnaCare	United Healthcare/
Cigna PPO	Mail Handlers Benefit Plan	AARP Medicare Complete Advantage
	Medicare	

INSURANCES WE DO **NOT ACCEPT**

Affinity	Health Plus
Amerigroup	Northshore LIJ
CMO	United Healthcare Community Plan

UTI

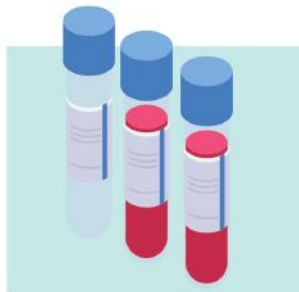
MOLECULAR PCR TEST

Our Urinary Tract Infections (UTIs) testing is designed to accurately identify the pathogens responsible for infections, enabling targeted antibiotic therapy and effective treatment.

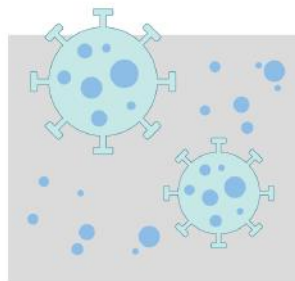
Accurate and timely diagnosis is crucial because an improper diagnosis or ineffective treatment plan for a UTI can cause:

- **ONGOING DISCOMFORT**
- **CHRONIC INFECTIONS**
- **PERMANENT KIDNEY DAMAGE**
- **URETHRAL NARROWING IN MEN**
- **LIFE-THREATENING SEPSIS**

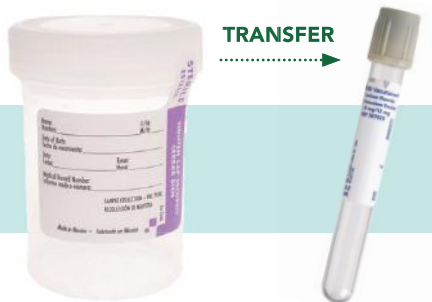
PCR Tests are
99% Accurate



**Tests for Both Antibiotic
Resistances & Pathogens**



Fast Results
Delivered in 48 hours



PCR TEST FROM 1 C&S TUBE (Gray Top) IDENTIFY:

- Range of UTI-causing bacteria, including those that are difficult to culture using traditional methods
- Patient-Specific Antibiotic Resistance
- 99% Accurate Results in 48 Hours
- User-Friendly Patient-Centric Reporting

THE ADVANTAGES OF PCR TESTING FOR LONG-TERM CARE FACILITIES

Molecular PCR testing is becoming increasingly popular in long-term care facilities due to its rapid and accurate results, typically available within 24 hours. This quick turnaround allows for prompt and precise treatment of patients with suspected infections, which is crucial in preventing outbreaks.

PCR testing plays a vital role in identifying infectious diseases in long-term care settings. It is effective for diagnosing a variety of infections, including COVID-19, wound infections, urinary tract infections, influenza, RSV, and whooping cough, all of which are concerns in these environments.



ALLIANCE™ KNOWLEDGE

DIFFERENCE BETWEEN URINE CULTURE AND PCR TESTING

	PCR Testing	Urine Culture Testing
 Method	Utilizes polymerase chain reaction (PCR) technology to detect bacterial DNA directly from the urine sample.	Involves growing bacteria from a urine sample in a lab over several days.
 Time	Provides results within 24-48 hours of lab receipt.	Typically takes 3-5 days to yield results.
 Accuracy	Highly accurate with the ability to detect a broader range of pathogens, including those that are difficult to culture.	Can identify bacteria and determine antibiotic susceptibility, but may miss fastidious or slow-growing organisms.
 Use	Offers rapid and precise identification of UTI-causing pathogens and their antibiotic resistance, improving the speed and accuracy of diagnosis and treatment.	Often used as a traditional method for diagnosing UTIs and determining antibiotic resistance.

The PCR method has a faster turnaround time than the Urine Culture (UC) method. PCR tests, unlike the UC, are also not dependent on bacteria growth in culture to detect and identify infection. This makes PCR more accurate, as it's able to pick up on an infection where a UC might instead produce a false negative.



Client: ALLIANCE LABORATORIES SE

1 7200 CAMINO REAL
BOCA RATON, FL 33433
(561) 453-1234 Fax: (561) 453-1238

3611 14TH AVE SUITE 102
BROOKLYN, NY 11218-3750
Tel: (718) 851-5773 Fax: (718) 851-3919
Laboratory Director: Samar Roy, PhD
CLIA#: 33D0985206

Patient: [REDACTED]

2 DOB: 12/20/1934 Age: 89 Sex: [REDACTED]
Phone: (561) 801-3499 ID#: 1246A2404030009

3 ssion: 2405080006
A2404030009

4 ction Date: 05/07/24
ction Time: 23:59

5 ived Date: 05/08/24
lved Time: 10:10
Final report date: 05/08/24

Print Date: 05/08/24
Print Time: 18:13

MOLECULAR RESULTS SUMMARY

ORGANISM(S) DETECTED

Organism	Presence	Relative CFU/mL result B
Escherichia coli	DETECTED	7
Proteus mirabilis	DETECTED	

B. Relative CFU/mL, based on semi-quantitative conversion from real-time PCR of organism genomic DNA.
Approximate ranges of relative CFU/mL include:

LOW: <10³ CFU/mL
MED: 10³ - 10⁵ CFU/mL
HIGH: >10⁵ CFU/mL

ANTIBIOTIC RESISTANCE GENE(S) DETECTED

Antibiotic Resistance Marker	Presence
telM, telS	PR
ampC	PR
TEM	PR
Sul1, Sul2	PR

MOLECULAR PANEL RESULTS

Test	Presence	Relative CFU/uL result B	Remarks
MOLECULAR UTI PATHOGENS			
Escherichia coli	DETECTED	12	
Enterococcus faecalis	NOT DETECTED		
Klebsiella aerogenes	NOT DETECTED		
Streptococcus agalactiae	NOT DETECTED		
Proteus mirabilis	DETECTED		
Providencia stuartii	NOT DETECTED		
Morganella morganii	NOT DETECTED		
Klebsiella oxytoca	NOT DETECTED		
Pseudomonas aeruginosa	NOT DETECTED		
Proteus vulgaris	NOT DETECTED		
Klebsiella pneumoniae	NOT DETECTED		
Acinetobacter baumannii	NOT DETECTED		
Enterococcus faecium	NOT DETECTED		
Enterobacter cloacae	NOT DETECTED		
Citrobacter freundii	NOT DETECTED		
Candida albicans	NOT DETECTED		
Staphylococcus saprophyticus	NOT DETECTED		

Antibiotic Resistance Markers

Test	Presence	Relative CFU/uL result B	Remarks
mecA	ABSENT		
telM, telS	PRESENT	14	
ampC	PRESENT		
DHA	ABSENT		
FOX	ABSENT		
TEM	PRESENT		
IMP-1 group, IMP-16, IMP-7	ABSENT		
OXA-1, GES	ABSENT		
SHV	ABSENT		
OXA-23, 72, 40, blaOXA-48	ABSENT		
BIL1 AT/CMY	ABSENT		

ABR Genes	Resistance Gene Group	Antibiotic Names and Classes
ampC FOX ACC DHA MOX/CMY BIL/ LAT/CMY	Ampicillin resistance genes	
CTX-M group 1, 2, 9, 8/25 OXA-1 GES SHV TEM VEB	Extended-spectrum beta-lactamases resistance genes	Aminopenicillin (Ampicillin) Beta-lactamase Inhibitor Combination (Ampicillin/ Sulbactam, Amoxicillin/ Clavulanate, Oxacillin, Piperacillin/ Tazobactam)
PER-1 PER-2 ESBL IMP-1 IMP-16 IMP-7 VIM OXA-23 OXA-72 OXA-40 blaOXA-48	Carbapenem resistant Beta-lactamases resistance genes	Cephalosporins (Cefepime, Cefotaxime, Ceftriaxone, Cefoxitin, Cefazolin, Cefaclor)
mecA	Methicillin resistance genes	



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VEB	ABSENT
KPC	ABSENT
VIM	ABSENT
MOX/CMY	ABSENT
vanA1, vanA2, vanB	ABSENT
QnrA, QnrS, QnrB	ABSENT
dfrA5, dfrA1	ABSENT
Sul1, Sul2	PRESENT

Molecular Summary Table

Patho Antib	Escherichia coli	Proteus mirabilis
Amoxicillin-Clavulanate	Recommended	Recommended
Ampicillin	Not Recommended	Not Recommended
Ampicillin-Sulbactam	Recommended	Recommended

Enterococcus species

Enterococcus faecalis (ENTFA)
Enterococcus faecium (EFAEC)

Klebsiella species

Enterobacter aerogenes_Klebsiella aerogenes (STRAG)
Klebsiella oxytoca (KOXYT)
Klebsiella pneumoniae (KPENE)

Staphylococcus species

Staphylococcus Pooled_Staphylococcus aureus & Staphylococcus Saprophyticus (STAP)

Proteus species

Proteus mirabilis (PMIRA)
Proteus vulgaris (PVULG)

Citrobacter species

Citrobacter freundii (CFREU)
Citrobacter koseri (CKOS)

Escherichia species

Escherichia coli (ECOLI)

Pseudomonas species

Pseudomonas aeruginosa (PAERU)

Enterobacter species

Enterobacter cloacae (ECLOA)

Pantoea agglomerans (PAGGI)

Serratia species

Serratia marcescens (SMARC)

Candida species

Candida albicans (CALB)
Candida auris (CAUR)
Candida glabrata (CGLAB)
Candida parapsilosis (CPARA)

Streptococcus species

Viridans Group Strep_Streptococcus agalactiae & Streptococcus pneumoniae (GAS)

Aerococcus species

Aerococcus urinae (AURIN)
Corynebacterium jeikeium (CRIEG)

Morganella species

Morganella morganii (MMORG)

Acinetobacter species

Acinetobacter baumannii (ABAUM)
Actinobaculum Species
Actinobaculum schaalii (ASCHA)

Providencia species

Providencia stuartii (PSTUA)

Bifidobacteriaceae family

Alloscardovia Omnicolens (AOMNI)

ABR Genes	Resistance Gene Group	Antibiotic Names and Classes
QnrA QnrS QnrB	Quinolone and fluoro-quinolone resistance genes	Fluoroquinolones (Levofloxacin, Ciprofloxacin)
vanA1 vanA2 vanB	Vancomycin resistance genes	Glycopeptides (Vancomycin, Teicoplanin, and Ramoplanin)
dfrA5 dfrA1	Trimethoprim resistance dihydrofolate reductase genes	Diaminopyrimidines (DAPs) (Trimethoprim and Iclaprim)
Sul1 Sul2	Sulfonamide resistance genes	Sulfonamides (Sulfamethoxazole/trimethoprim, Sulfasalazine, Sulfisoxazole)
tetM tetS	Tetracycline resistance genes	Tetracyclines (Demeclocycline, Doxycycline, and Minocycline)
IMP-1 IMP-16 IMP-7 KPC OXA-23 OXA-72 OXA-40 blaOXA-48 VIM	Carbapenems resistance genes	Carbapenems (Doripenem, Ertapenem, Imipenem, and Meropenem)

SUITE 102
1218-3750
Fax: (718) 851-3919
Dr. Samar Roy, PhD
06

Age: 89 Sex: F
ID#: 1246A2404030009

Print Date: 05/08/24
Print Time: 18:13

24

ment decisions. Test results may be
or specimen mix-up. Testing performed
laboratories. They have not been cleared
ity testing. This test is used for clinical
Alliance Laboratories.

Page 2 of 2



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Tel. (718) 851-5773 Fax. (718) 851-3919
Laboratory Director: Samar Roy, PhD
CLIA#: 33D0985206



Client: 5064

Phys: Fax:

Patient:
DOB: 10/19/1953 Age: 70 Sex: M
Phone: ID#:

Accession: 2406250225

Coll. Date: 06/25/24

Recv. Date: 06/25/24

Print Date: 07/17/24

Chart#

Coll. Time: 12:46

Recv. Time: 23:46

Print Time: 13:39

First reported on:

06/29/24

Final report date:

06/29/24

Clinical Report:

Clinical Abnormalities Summary: (May not contain all abnormal results; narrative results may not have abnormal flags. Please review entire report.)

FINAL

Comment

A

Test Name	Within Range	Out Of Range	Ref. Range	Units	Previous Result (Date)
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MICROBIOLOGY

Urine Culture, Routine

FINAL

Comment A

*1

Urine Source
Clean catch

Colony Count
>100,000 cfu/ml (Isolate 1)

Micro Culture Result
Methicillin Resistant Staphylococcus aureus (Isolate 1)

Sensitivity Analysis Isolate 1

Ciprofloxacin	<=1	S
Daptomycin	<=1	S
Gentamicin	<=4	S
Levofloxacin	<=1	S
Linezolid	<=2	S
Nitrofurantoin	<=32	S
Oxacillin	>2	R
Penicillin	8	R
Rifampin	<=1	S
Tetracycline	<=4	S
Trimethoprim/Sulfamethoxazo	1/19	S
Vancorycin	<=0.5	S

S=Sensitive POS=Positive
I=Intermediate NEG=Negative
R=Resistant MIC= mcg/ml (mg/mL)
N/R=Not Reported
SDD=Susceptible-Dose Dependent
Blac=Beta-lactamase positive
ESBL=Extended spectrum beta-lactamase

(Continued on Next Page)

Originally Reported On: 06/29/24 12:47

(L)Low | (H)High | (CL)Critical Low | (CH)Critical High

Accession: 2406250225 Patient ID: R0000365079

Page: 1

STAT[S] Corrected [C] Added [A]

Lab Results For: BONDY, JAY

- Client/Doctor Demographics:** Including Address, Phone and Fax Number
- Patient Demographics:** Including Date of Birth (DOB), Age and Sex
- Accession Number given by laboratory**
- Patient Demographics:** Including Collection date and time
- Date and Time the laboratory received the specimen**
- List of positively detected organisms within the panel**
- The relative Colony Forming Units per microliters (CFU/uL)** displayed for each positively detected organism
- List of positively detected Antibiotic Resistance Markers** for each organism present
- The relative Colony Forming Units per microliters (CFU/uL):**
"LOW" for colonies found with a value less than 1,000 CFU/uL
"MED" for colonies found with a value between 1,000 - 100,000 CFU/uL
"HIGH" for colonies found with a value greater than 100,000 CFU/uL

- List of pathogens/organisms** within the panel
- List of Detected or Not detected pathogens/organisms** within the panel
- The relative Colony Forming Units per microliters (CFU/uL)** displayed for each positively detected organism
- List of Antibiotic Resistance Markers** within the panel
- List of Absent or Present Antibiotic Resistance Markers** within the panel
- List of potential antibiotic relationships to the pathogen found**
- List of positively detected organisms** within the panel to correlate potential antibiotic relationships using the antibiotic resistance markers as a guide. Here will be a list of RECOMMENDATIONS not to be used as a diagnostic tool.

CONTACT US

NORTHEAST



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SOUTHEAST



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