

Name	Patient, Name	Accession#	4304004	Doctor	Marjorie Bon Homme
Date of Birth	06/12/2007	Sample ID	None	Organization	Acutis Collection Center
Gender	Female	Matrix	Clean Catch Urine		
ID	6522-576416	Collection Date	07/09/2024 03:00 AM		
		Received Date	07/10/2024 11:36 AM		
		Reported Date	07/10/2024 12:16 PM		

Urinary Tract Infection (UTI) - Detected by PCR

Organisms	Outcome; CFU/mL
<i>Providencia stuartii</i>	Positive, >10,000 - <100,000
<i>Escherichia coli</i>	Positive, >100,000

Antibiotic Summary

EMP+: Empiric antibiotic option | +: Indicated for use by FDA | ARG: Antibiotic Resistance Gene detected

Organisms:		
Treatment	<i>Providencia stuartii</i> EMP/ARG	<i>Escherichia coli</i> EMP/ARG
Trimethoprim/Sulfamethoxazole	EMP+	EMP+
Ceftriaxone	ARG	ARG
Ciprofloxacin	+	EMP+
Levofloxacin	+	EMP+
Amikacin	+	+
Ampicillin/Sulbactam	ARG	ARG
Aztreonam	ARG	ARG
Cefepime	ARG	ARG
Cefotaxime	ARG	ARG
Cefotetan	ARG	ARG
Cefoxitin	ARG	ARG
Cefpodoxime	ARG	ARG
Ceftazidime	ARG	ARG
Ceftizoxime	ARG	ARG
Cefuroxime	ARG	ARG
Cefuroxime Axetil	ARG	ARG
Doripenem	+	+
Ertapenem	+	+
Gentamicin	+	+
Imipenem	+	+
Meropenem	+	+
Moxifloxacin	+	+
Nalidixic Acid	+	+
Norfloxacin	+	+
Piperacillin	ARG	ARG
Piperacillin/Tazobactam	ARG	ARG
Ticarcillin	ARG	ARG
Tobramycin	+	+
Amoxicillin/Clavulanic Acid	ARG	ARG
Nitrofurantoin		EMP+
Ampicillin	ARG	ARG

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Treatment	EMP/ARG	EMP/ARG
Cefalotin	ARG	ARG
Cefazolin	ARG	ARG
Linezolid		+
Tetracycline		+
Ticarcillin/Clavulanic Acid	ARG	ARG
Tigecycline		+

Antibiotic Resistant Genes - Detected by PCR

DHA	FOX	SHV
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Urinary Tract Infection (UTI) - Not Detected by PCR

<i>Acinetobacter baumannii</i>	<i>Aerococcus urinae</i>	<i>Candida albicans</i>	<i>Candida glabrata</i>
<i>Candida parapsilosis</i>	<i>Citrobacter freundii</i>	<i>Citrobacter koseri</i>	Coagulase Negative Staph
<i>Corynebacterium riegelii</i>	<i>Enterobacter aerogenes</i>	<i>Enterobacter cloacae</i>	<i>Enterococcus faecalis</i>
<i>Enterococcus faecium</i>	<i>Klebsiella oxytoca</i>	<i>Klebsiella pneumoniae</i>	<i>Morganella morganii</i>
<i>Pantoea agglomerans</i>	<i>Proteus mirabilis</i>	<i>Pseudomonas aeruginosa</i>	<i>Serratia marcescens</i>
<i>Staphylococcus aureus</i>	<i>Streptococcus agalactiae</i>	Viridans Group Strep	

Antibiotic Resistant Genes - Not Detected by PCR

ACT	CMY	CTX-M group	dfrA
KPC	mecA	OXA-1 / GES	PER
qnr Group	Sul1/Sul2	TEM	tetM
van Group	VEB	VIM	

Test System Details:

Antimicrobial resistance gene information is incorporated when ordered and where it is available. Empirical antibiotic list and drugs indicated for potential use (+), when presented, does not consider patient specific factors and is based on the presence of the pathogen alone. All standard criteria for antibiotic selection must be considered independent of the provided list. The empiric antibiotic list presented should be cross-referenced with other sources including FDA.gov and Sanfordguide.com.

Urinary Tract Infection (UTI) by PCR:

The Acutis UTI Panel is a multiplex, real-time polymerase chain reaction (PCR) diagnostic assay developed for the semi-quantitative detection of select pathogens/ABRG from urine samples. Test results are presumptive and must be considered in conjunction with the clinical history and other available data for the clinical management of the patient. This test cannot rule out infections

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caused by pathogens not present in this panel. The performance of this assay has not been evaluated in asymptomatic patients. The presence of antibiotic resistance genes does not always result in phenotypic expression of resistance. Additionally, it is not always possible to determine which specific organism is contributing to the presence of these genes. This test was developed, and its performance characteristics were determined by Acutis in a manner consistent with NYS Department of Health requirements and CLSI guidelines. The FDA has not approved or cleared this test. The following organisms have a cut-off value = 100,000 CFU/mL: *Acinetobacter baumannii*, *Citrobacter freundii*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, coagulase negative staph (*Staphylococcus epidermidis*, *Staphylococcus saprophyticus* and *Staphylococcus haemolyticus*), viridians streptococci (*Streptococcus pasteurianus* and *Streptococcus oralis*), *Candida parapsilosis*/*glabrata*. All other assay cut-off values = 10,000 CFU/mL

Laboratory Director: Marjorie Bon Homme, PhD, DABCC
Acutis Diagnostics, 400 Karin Lane, Hicksville, NY 11801. CLIA ID# 33D2087537

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