Acūtis
1-844-522-8847
service@acutis.com
acutis.com

Acutis Reveal™ Report

Status - **FINAL**

Pathogen Detected

Name	Test, Test	Accession#	3613165	Doctor	Marjorie Bon Homme
Date of Birth	12/23/1993	Sample ID	CE2249224	Organization	Testing and Verification - Acutis
Gender	Female	Matrix	Clean Catch Urine		
ID	3022-370242	Collection Date	05/09/2022 03:08 PM		
		Received Date	05/11/2022 12:06 PM		
		Reported Date	05/14/2022 03:29 PM		

Urinary Tract Infection (UTI) - Detected by PCR

Organisms	Outcome; CFU/mL
Enterococcus faecalis	***Positive, >100,000***
Escherichia coli	***Positive, >100,000***

Possible Treatment Options & Resistance

Organisms:	*Enterococcus faecalis*			*Escherichia coli*		
Colony Count:	50,000 CFU/mL			80,000 CFU/mL		
Treatment	EMP	AST	MIC	EMP	AST	MIC
Nitrofurantoin	EMP	S	<=32.000	EMP	S	<=32.000
Ciprofloxacin		S	<=1.0000	EMP	S	<=0.2500
Levofloxacin		–	–	EMP	S	<=0.5000
Tetracycline	EMP	S	<=2.0000		S	<=4.0000
Trimethoprim/Sulfamethoxazole	RGD	R	<=2.0000	EMP	S	<=2.0000
Amikacin		–	–		S	<=8.0000
Ampicillin		S	1.0000		S	<=8.0000
Ampicillin/Sulbactam		–	–		S	<=4.0000
Aztreonam		–	–		S	<=1.0000
Cefazolin		–	–		S	2.0000
Cefepime		–	–		S	<=2.0000
Ceftaroline		R	1.0000		–	–
Ceftazidime		–	–		S	<=1.0000
Ceftriaxone		R	>64.0000		S	<=0.5000
Clindamycin		R	>2.0000		–	–
Doripenem		–	–		S	<=0.5000
Ertapenem		–	–		S	<=0.2500
Gentamicin		R	8.0000		S	<=2.0000
Imipenem		–	–		S	<=1.0000
Meropenem		–	–		S	<=0.5000
Penicillin		S	2.0000		–	–
Piperacillin/Tazobactam		–	–		S	<=8.0000
Rifampicin		R	>2.0000		–	–
Tobramycin		–	–		S	<=2.0000
Vancomycin		S	2.0000		–	–

EMP: Empirical Recommendation
AST: Antimicrobial Sensitivity Test (S: Susceptible / I: Intermediate / R: Resistant / NI: No Interpretation / –: Not Available) | MIC: Minimum Inhibitory Concentration

Urinalysis

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Analyte	Outcome
Blood	***Negative, Normal***
Glucose	***Negative, Normal***
Leukocyte	***Negative, Normal***
Nitrite	***Negative, Normal***
Protein	***Negative, Normal***

Urinary Tract Infection (UTI) - Not Detected by PCR

Acinetobacter baumannii	*Aerococcus urinae*	*Candida albicans*	*Candida parapsilosis / glabrata*
Citrobacter freundii	*Citrobacter koseri*	*Coagulase Negative Staph Group*	*Corynebacterium riegelii*
Enterobacter aerogenes / cloacae	*Enterococcus faecium*	*Klebsiella oxytoca*	*Klebsiella pneumoniae*
Morganella morganii	*Pantoea agglomerans*	*Proteus mirabilis*	*Providencia stuartii*
Pseudomonas aeruginosa	*Serratia marcescens*	*Staphylococcus aureus*	*Staphylococcus saprophyticus*
Streptococcus agalactiae	*Streptococcus anginosus / pasteurianus*	*Streptococcus oralis*	*Streptococcus pyogenes*

Test System Details:
Empirical antibiotic list, when presented, does not consider patient specific factors and is based on the presence of the pathogen alone. The list further does not incorporate resistance, amongst other criteria. 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:
This is a real-time polymerase chain reaction (PCR) diagnostic assay developed for the qualitative detection of select urinary pathogens from human samples. This is a multiplex test intended for the detection of DNA from uropathogens extracted from a clean-catch urine specimen. 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 caused by pathogens not present in this panel. 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. This is a multiplex test intended for the detection of DNA from uropathogens extracted from a clean-catch urine specimen. The FDA has not approved or cleared this test.
Organisms listed below have cut-off value = 100,000 CFU/mL. All other assay cut-off values = 10,000 CFU/mL.
Acinetobacter baumannii, Citrobacter freundii, Klebsiella pneumoniae, Pseudomonas aeruginosa, Staphylococcus epidermidis/haemolyticus/lugdunenesis, Streptococcus anginosus/pasteurianus, Streptococcus oralis, Candida parapsilosis/glabrata

Antimicrobial Sensitivity Testing (AST):
AST is performed using a culture-based methodology. Results are reported separately when ordered and when an organism is detected by PCR. Preliminary report status may indicate that AST results are pending.

Urinalysis (UA):
This assay is CLIA-waived. Clinical diagnosis should not be based solely on a single test result. The test is a colorimetric assay and heavily pigmented, bloody, or discolored samples may interfere with the instruments ability to correctly interpret test results. Tetracycline interferes with the leukocyte panel, and high levels of the drug may cause a false negative result. Any trace results are considered indeterminate, and it is recommended that a fresh sample be collected for retesting.
Panel cutoffs: blood = 0.01 mg/dL hemoglobin, glucose = 75 mg/dL, leukocyte esterase = 10 cells/µL, nitrites ions = 0.06 mg/dL, protein = 15 mg/dL

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