

# Comprehensive UTI Reporting that Goes Beyond the Basics



Ordered Date: 12/09/2019 9:31AM Delivery Date: 12/09/2019 10:01AM

Order Comments: 12/10/2019 11:53AM Antibiotic resistance is reported only on positive bacterial results.

Reporting Group: UTI

**Urinary Tract Infection (UTI) - Bacterial/Fungal**

**Gram Positive Bacteria UTI Panel** GENETWORX<sup>1</sup> SID:193430048 UTI

Final - Approved 12/10/2019 11:53AM Collected 12/06/2019 12:00AM

The reference interval for this assay is Negative. This laboratory is regulated under the Clinical Laboratory Improvement Amendment (CLIA) of 1988 as qualified to perform high complexity clinical testing. This test is used for clinical purposes. It should not be regarded as investigational or for research. Laboratory specimens were analyzed for the indicated pathogen(s) using pathogen specific real time PCR Assays. Genomic DNA was extracted from the submitted specimen and amplified by real time polymerase chain reaction (qPCR) using consensus oligonucleotide primers specific for the analytes listed coupled with labeled probes for specific detection of each pathogen. The Analyte Specific Reagents (ASR) used in this assay are not approved by the Food and Drug Administration (FDA). FDA approval is not required for the use of these ASRs. Rare diagnostic errors may occur due to primer site similarities in the DNA structure of non-specific organisms. Absence of the tested analyte indicates only the absence of the analyte tested above and does not imply that other different infectious analytes are not present.

TEST	RESULT	REF RANGE	UNIT
Enterococcus faecalis	<b>A Positive Medium (9.67E+005 cfu/mL) 26.0%</b>	Negative	

Therapeutic Options

Amoxicillin 875mg PO twice daily x7-10 days

PCN allergy:  
Nitrofurantoin (Macrochantin) 50-100mg PO four times daily  
Nitrofurantoin Monohydrate/macrocrystals (Macrobid) 100mg PO twice daily x7-10 days

VRE:  
Fosfomycin (Monurol) 3gm PO x1 dose

The GENETWORX UTI lab report goes beyond the basics to include the percentage of each bacteria found, antibiotic resistance markers, pharmacist recommended therapeutic options specific to the patient's results, and more.

Reporting Group: UTI - Reflex

**Antibiotic Resistance UTI Panel** GENETWORX<sup>1</sup> SID:193430048 UTI

Final - Approved 12/10/2019 11:53AM Collected 12/06/2019 12:00AM

TEST	RESULT	REF RANGE	UNIT
Aminoglycosides aacA-aphD	Negative	Negative	
Carbapenem resistance NDM	Negative	Negative	
Carbapenem resistance OXA23	Negative	Negative	
Carbapenem resistance OXA48	Negative	Negative	
Carbapenem resistance SME	Negative	Negative	
Carbapenem resistance VIM	Negative	Negative	
Carbapenem resistance KPC	Negative	Negative	
Extended Spectrum Beta Lactamase (ESBL) CMY2	Negative	Negative	
Extended Spectrum Beta Lactamase (ESBL) CTXM	Negative	Negative	
Extended Spectrum Beta Lactamase (ESBL) SHV	Negative	Negative	
Macrolide-lincosamide-streptogramin B ermA	Negative	Negative	
Macrolide-lincosamide-streptogramin B ermB	Negative	Negative	
Macrolide-lincosamide-streptogramin B ermC	Negative	Negative	
Tetracycline tetM	<b>A Positive</b>	Negative	
Tetracycline tetS	Negative	Negative	
Vancomycin resistance VanA	Negative	Negative	
Vancomycin resistance VanB	Negative	Negative	
MecA	Negative	Negative	
FemB	Negative	Negative	
Methicillin Resistant Staphylococcus aureus	Negative	Negative	
Methicillin Resistant Staphylococcus epidermidis	Negative	Negative	
Methicillin Sensitive Staphylococcus aureus	Negative	Negative	
Methicillin Sensitive Staphylococcus epidermidis	Negative	Negative	
Attachment			

- 1 The amount of each bacteria is shown as colony forming units (cfu/mL), similar to a culture report. The number is shown as exponential (ie 9.67E005= 967,000 cfu/mL). The percentage of each bacteria is shown so that you will know which are the most prevalent bacteria in the patient sample.
- 2 Each Positive result is accompanied by therapeutic options developed by our pharmacists using the most up-to-date guides for antimicrobial therapy.

Inhibit	GENERIC	Tablets	Capsules	Liquid	Inhalation	Injection	Topical	Antibiotic Resistance Genes
Cell Wall Synthesis	Glycopeptides							
	vancomycin		*			*		VanA VanB
Protein Synthesis	Aminoglycosides					*		aacA- aphD
	amikacin					*		
	gentamicin					*	*	
	tobramycin					*	*	
	Tetracyclines					*	*	
	doxycycline	*	*	*		*	*	tetM tetS
	minocycline	*	*			*	*	
	tetracycline	*	*			*	*	
	Glycylcycline					*	*	
	tigecycline					*	*	
	Oxazolidinone							
	linezolid	*	*	*		*	*	
	tedizolid	*	*			*	*	
	Streptogramin							
	quinupristin/dalfopristin					*	*	
	Macrolides							
	azithromycin	*	*	*		*	*	ermA ermB ermC
clarithromycin	*	*	*		*	*		
erythromycin	*	*	*		*	*		
Lincosamide								
clindamycin	*	*	*		*	*		
lincomycin	*	*	*		*	*		

- 3 The antibiotic class for each gene is listed.
- 4 A Positive result indicates a resistant gene is found in the sample and linked to an antibiotic class.
- 5 If the report has an antibiotic resistance marker Positive on the Antibiotic Classification Chart, the physician should consider avoiding the antibiotics in this class.



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