



PATHNOSTICS GUIDANCE[®] UTI: PROSTATITIS REPORT

Patient: First Last

DOB: 01-01-1901
 Phone: 123-456-7890
 MRN#: 1234

Provider: Best Physician, MD
 Facility: 1234 Fake St.
 Phone: 123-456-7890
 Fax: 123-456-7890

Case#: PUXP21-smpl01
 Collection Method: Semen
 Date Collected: 02-10-2021
 Date Received: 02-11-2021
 Date Reported: 02-12-2021

RESULTS: PATHOGENIC DNA DETECTED

ORGANISM(S) TESTED - DETECTED: (See last page for Organism(s) Tested - Not Detected)

- *Coagulase Negative Staph Group* ≥100,000 cells/ejaculate
- *Escherichia coli* 50,000-99,999 cells/ejaculate
- *Enterococcus faecalis* 10,000-49,999 cells/ejaculate
- *Klebsiella pneumoniae* <10,000 cells/ejaculate

LEGEND																			
<p>S = Pooled Phenotypic Sensitivity Detected</p> <p>R = Pooled Phenotypic Resistance Detected</p> <p>RGD = Resistance Gene(s) Detected</p>	Ciprofloxacin	Levofloxacin	Fosfomycin	Nitrofurantoin	Sulfamethoxazole / Trimethoprim	Cefaclor	Meropenem	Cefepime	Ceftazidime	Piperacillin / Tazobactam	Amoxicillin / Clavulanate	Tetracycline	Ampicillin	Ceftriaxone	Gentamicin	Ampicillin / Sulbactam	Cefazolin	Cefoxitin	Vancomycin
Formulations	PO/IV	PO/IV	PO	PO	PO/IV	PO	IV	IV	IV	IV	PO	PO	PO/IV	IM/IV	IM/IV	IV	IV	IV	IV
Pooled Phenotypic Sensitivity	S	S	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R
Resistance Gene(s) Detected																			
MIC Results (µg/mL)	1	2	64	32	2/38	8	1	1	4	16/4									

Organism(s) Tested - Detected: ✓ = Check marks are supportive data and are NOT patient specific.

<i>Coagulase Negative Staph Group</i> **	✓	✓			✓		✓				✓	✓		✓	✓				✓
<i>Escherichia coli</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
<i>Enterococcus faecalis</i>	✓	✓	✓	✓									✓						✓
<i>Klebsiella pneumoniae</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	

✓ = Check marks indicate situations for which antibiotic use is either FDA-approved or off label use for antibiotics is illustrated in peer review literature. References available upon request.



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POOLED PHENOTYPIC SENSITIVITY DETECTED (S):

- Ciprofloxacin (PO/IV)
- Levofloxacin (PO/IV)
- Fosfomycin (PO)
- Nitrofurantoin (PO)
- Sulfamethoxazole/Trimethoprim (PO/IV)
- Cefaclor (PO)
- Meropenem (IV)
- Cefepime (IV)
- Ceftazidime (IV)
- Piperacillin/Tazobactam (IV)

POOLED PHENOTYPIC RESISTANCE DETECTED (R):

- Amoxicillin/Clavulanate (PO)
- Tetracycline (PO)
- Ampicillin (PO/IV)
- Ceftriaxone (IM/IV)
- Gentamicin (IM/IV)
- Ampicillin/Sulbactam (IV)
- Cefazolin (IV)
- Cefoxitin (IV)
- Vancomycin (IV)

RESISTANCE GENE(S) DETECTED (RGD):

- None

RESISTANCE GENE(S) TESTED - NOT DETECTED:

- Ampicillin Resistance
- Carbapenem resistance
- ESBL Resistance *
- Methicillin Resistance
- Quino/Fluoroquinolone
- Vancomycin Resistance

ORGANISM(S) TESTED - NOT DETECTED:

BACTERIA:

- *Acinetobacter baumannii*
- *Actinotignum schaalii*
- *Aerococcus urinae*
- *Alloscardovia omnicolens*
- *Citrobacter freundii*
- *Citrobacter koseri*
- *Corynebacterium riegelii*
- *Enterobacter Group* ***
- *Enterococcus faecium*
- *Klebsiella oxytoca*
- *Morganella morganii*
- *Mycoplasma hominis*
- *Pantoea agglomerans*
- *Proteus mirabilis*
- *Providencia stuartii*
- *Pseudomonas aeruginosa*
- *Serratia marcescens*
- *Staphylococcus aureus*
- *Streptococcus agalactiae*
- *Ureaplasma urealyticum*
- *Viridans Group Strep* ****

VIRUS:

- Human Herpes Virus -1,-2 (HSV -1,-2)
- Human Herpes Virus -5 (CMV)
- Human Herpes Virus -6 (HHV-6)

YEAST:

- *Candida albicans*
- *Candida auris*
- *Candida glabrata*
- *Candida parapsilosis*

References:

* ESBL Positive for extended-spectrum beta-lactamases (ESBL) which are enzymes that confer resistance to most beta-lactam antibiotics, including penicillins, cephalosporins, and the monobactam aztreonam. Infections with ESBL producing organisms have been associated with poor outcomes

** Coagulase Negative Staphylococcus includes: *Staphylococcus epidermidis*, *Staphylococcus haemolyticus*, *Staphylococcus lugdunensis*, and *Staphylococcus saprophyticus*

*** Enterobacter Group includes: *Enterobacter cloacae*, and *Klebsiella aerogenes* (formerly *Enterobacter aerogenes*).

**** Viridians Group Strep includes: *Streptococcus anginosus*, *Streptococcus oralis*, and *Streptococcus pasteurianus*

Disclaimer: This test was developed and its performance characteristics determined by Pathnostics. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approvals is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical testing. Semen specimens received greater than 5 days post collection may give unreliable cells/ejaculate counts due to overgrowth of microorganism(s).

Methodology and Clinical Significance: Microbes and resistance genes are detected through multiplex PCR. Pathogens are reported as: 'no pathogenic DNA detected'. Detected: "<10,000"; "10,000-49,999"; "50,000-99,999"; or "≥ 100,000" organism(s) per ejaculate. Resistance genes are either detected or not detected. Minimum inhibitory concentration (MIC) is determined by subjecting the polymicrobial population to a panel of antimicrobial agents. For full methodology visit pathnostics.com/methodology V12A-1

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