Urinary Tract Infections

Urinary tract infections are a major cause of morbidity in the United States. They are the second most common infection after respiratory infections, and largely affect women. Approximately 11% of women suffer from a UTI, 60% of women will have at least one UTI during their lifetime, 25% of UTIs will recur within six months of the initial infection. Although UTIs are not sexually transmitted, they frequently occur in young, sexually active women, although they are by no means confined to this population. Medical Diagnostic Laboratories (MDL) has developed sensitive and specific Real-Time PCR tests to detect these pathogens in *UroSwab*[®] specimens to assist the physician in the diagnosis of UTI. We offer two urinary tract infection panels:

Urinary Pathogens Antibiotic Resistance

E. coli Enterococcus faecium Klebsiella pneumoniae

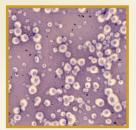
- amoxicillin-clavulanic acid
- cephalothin (cephalexin)
- trimethoprim-sulfamethoxazole
- nitrofurantoin
- ciprofloxacin
- fosfomycin

Enterococcus faecalis Klebsiella oxytoca Proteus mirabilis

- ampicillin
- nitrofurantoin
- ciprofloxacin
- fosfomycin
- doxycycline
- linezolid

With colony counts at no additional cost

Urinary Tract Infection Tests Available (male and female specimens)



Test No. 6286 Urinary Pathogens Panel

- 153 Enterococcus faecalis by Real-Time PCR
 - 153 Enterococcus raecans by Real-Time PCR
- 154 Enterococcus faecium by Real-Time PCR
- 141 Escherichia coli by Real-Time PCR
- 127 Group B Streptococcus (GBS) by Real-Time PCR
- 137 Group B Streptococcus (GBS) Antibiotic Resistance
- 727 Klebsiella oxytoca
- 728 Klebsiella pneumoniae
- 146 Proteus mirabilis by Real-Time PCR
- 174 Pseudomonas aeruginosa by Real-Time PCR
- 151 Staphylococcus saprophyticus by Real-Time PCR
- 176 Urinary Pathogens Antibiotic Resistance Testing (E. coli, Enterococcus faecalis, Enterococcus faecium, K. oxytoca, K. pneumoniae, Proteus mirabilis)

Test No. 6815 Complex Urinary Tract Infection Panel

- 551 Candida albicans by Real-Time PCR
 - 576 Candida dubliniensis by Real-Time PCR
 - 559 Candida glabrata by Real-Time PCR
 - 578 Candida kefyr by Real-Time PCR
 - 566 Candida krusei by Real-Time PCR
 - 577 Candida lusitaniae by Real-Time PCR
 - 558 Candida parapsilosis by Real-Time PCR
 - 557 Candida tropicalis by Real-Time PCR
 - 129 Mycoplasma genitalium by Real-Time PCR (Reflex to azithromycin & fluroquinolone resistance)
 - 130 Mycoplasma hominis by Real-Time PCR
 - 178 Ureaplasma parvum by Real-Time PCR (Reflex to antibiotic resistance by Molecular Analysis)
 - 320 Ureaplasma urealyticum by Real-Time PCR (Reflex to antibiotic resistance by Molecular Analysis)



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Medical Diagnostic Laboratories www.mdlab.com • 877.269.0090



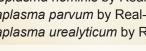
Klebsiella species

Escherichia coli

Proteus mirabilis

Enterococcus species

IH0036 Upd: 3_13_2024



Available on the UroSwab[®]...

mdl

MEDICAL DIAGNOSTIC LABORATORIES 2439 KUSER ROAD HAMILTON, NJ 08690-3303 TL: 609-570-1000 FX: 609-570-1050 TF: 877-269-0090 www.mdlab.com

Patient Information: SSN: N/A DOE, JANE 123 MAIN ROAD MARLTON, NJ 08053		DOB: 1/1/1978 (Age:43)		Ordering Physician/Lab: DOE WOMANS GROUP JOHN DOE, MD 555 SMITH STREET ANYTOWN, NJ 55555		NPI: 123456789
Sex: Female Home: (856) 555-5555					856) 555-5552 856) 555-5553	
Patient ID:		Date Received	i: 7/4/2			Date Reported: 7/12/2023
Test	Specimen	Date Collected	Normal	Result	Abnormal	Reference/Units/Comments
Escherichia coli by Real-Time PCR		7/3/2023 Not Indicated	Negativ	e		
141 Verified 7/8/2023	UroSwab - 1					
Proteus mirabilis by Real-		7/3/2023 Not Indicated	Negativ	e		
146 Verified 7/8/2023	UroSwab - 1					
153 Verified 7/8/2023	Real-Time PCR * UroSwab - 1	7/3/2023 Not Indicated			Positive	Uropathogen. Colony Count: >= 10*5 CFU/ml. AST performed: SENSITIVE TO Ampicillin, Ciprofloxacin, Fosfomycin, Linezolid, Nitrofurantoin . INTERMEDIATE TO Doxyeyeline.
Enterococcus faecium by	Real-Time PCR	7/3/2023 Not Indicated	Negativ	e		
154 Verified 7/10/2023	UroSwab - 1					
 Pseudomonas aeruginosa 174 Verified 7/8/2023 	by Real-Time PCR * UroSwab - 1	7/3/2023 Not Indicated	Negativ	0		
Urinary Pathogens (E. coli, Klebsiella spp., P. mirabilis, E. faecalis, E. faecium, GBS, P. aeruginosa) Antibiotic Resistance Testing 176 Verified 7/12/2023 UroSwab - 1		7/3/2023 Not Indicated				See Comments For UroSwab-1:Efaecalis.
Xlebsiella oxytoca by Real 727 Verified 7/8/2023	7/3/2023 Not Indicated	Negativ	a			
Xebsiella pneumoniae by 728 Verified 7/8/2023	Real-Time PCR * UroSwab - 1	7/3/2023 Not Indicated	Negativ	e		



- Real-Time PCR
- Simple, Convenient & Non-invasive sample collection
- No refrigeration required before or after collection
- Specimen viability up to five (5) days after collection
- Test additions available up to 30 days after collection



This test was developed and its performance characteristics determined by the laboratory. It has not been cleared or approved by the U.S. Food and Drug Administerian The FCAI has determined that such desarence or approval is not necessary UroSwab-(176:Urinary Pathogens (E. coli, Klebsiella spp., P. mirabilis, E. faecalis, E. faecium, GBS, P. aeruginosa) Antibiotic Resistance Testing Clinical and Laboratory Standards Institute (CLSI) recommendations and antibiotic abbreviations. And - Ampoillin, Clinical and edu (AL 71 - Attoreman, CF - Cepheloith is used to predict the activity of oral explansions): complexion, relations, editorium (clinication, and providence, CIP - - Oprofixeance, CF - Cepheloith is used to predict the activity of oral explansions; complexion, relation, and providine, CIP - - Oprofixeance, CF - Cepheloith is used to predict the activity of oral explansions; complexion, relation, and providine, CIP - - Oprofixeance, CF - Cepheloithe, CIP - Celepiner, FM - - Norkannitor, TCS - Fordonym, CM - Celentainium, TM - Imprement, LZD - Incendit TZF - Perpetainiin Taxobactute, SK1 - Timethorpin-sulfamethorazod; CBS is unformity sensitive to Detail-action entibiotics, which includes pencilinii, ampoillinii, ampoillin, amoscilinii, ampoillinii, ampoillini, ampoill

A positive result is provided for bacteria, virus, parasites, and/or fungal species when PCR amplification (real-time PCR), sequence information (Pyrosequencing), and/or sequencing analysis occurs above cut-off revise stabilished by the laboratory. Pertinent reference intervals for the tests reported above are available from the laboratory upon equest. <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text>

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1-UroSwab TG 73

07/12/2023