



Laboratory Information	Sample Information	Patient Information
CirrusDx, Inc. 9901 Belward Campus Dr Rockville, MD 20850 CLIA#21D2130541 Dr. Todd Myers, Lab Director 240-813-8801 or info@cirrusdx.com	Technician: SW Date Collected:4/9/2019 Date Received:4/10/2019 Date Reported:4/11/2019	Accession #: 2019-1111-011 Name: Ginger McIntosh DOB: 12/12/1961 MRN/SSN: Sex: Female

Practice Information	Test Information	
Name: Apple Urology Provider: Dr. Red Address: 123 Apple Way Farmtown, WI 12589	Test Name:	Urinary Tract Infection Panel (UTIP™) & polyMIC™
	Test Method:	UTIP: Real-Time PCR (Molecular) polyMIC: Antibiotic Sensitivity Testing
Phone: 123-456-0789	Specimen Type:	Urine -- Unknown Collection Method
Fax: 987-654-3210	Antibiotic Usage:	Unknown

Gram Negative Pathogens			
Tested Pathogen	Result	Detection Level (Organism/mL)#	Reference Range
<i>Escherichia coli</i>	Detected	1 x 10 ⁸	< 1x10 ⁴
<i>Acinetobacter baumannii</i>	Not Detected		< 1x10 ⁴
<i>Morganella morganii</i>	Detected	1 x 10 ⁶	< 1x10 ⁴
<i>Mycoplasma genitalium</i>	Not Detected		< 1x10 ⁵
<i>Klebsiella oxytoca</i>	Not Detected		< 1x10 ⁴
<i>Citrobacter freundii</i>	Not Detected		< 1x10 ⁴
<i>Klebsiella pneumoniae</i>	Not Detected		< 1x10 ⁴
<i>Proteus mirabilis</i>	Not Detected		< 1x10 ³
<i>Enterobacter aerogenes</i>	Not Detected		< 1x10 ⁴
<i>Pseudomonas aeruginosa</i>	Not Detected		< 1x10 ⁴
<i>Enterobacter cloacae</i>	Not Detected		< 1x10 ⁴
<i>Serratia marcescens</i>	Not Detected		< 1x10 ⁴
Gram Positive Pathogens			
<i>Staphylococcus aureus</i>	Not Detected		< 1x10 ⁴
<i>Staphylococcus spp. (CNS)</i>	Not Detected		< 1x10 ⁵
<i>Enterococcus faecium</i>	Not Detected		< 1x10 ⁴
<i>Enterococcus faecalis</i>	Not Detected		< 1x10 ⁴
<i>Streptococcus agalactiae</i>	Not Detected		< 1x10 ⁴
<i>Streptococcus pneumoniae</i>	Not Detected		< 1x10 ⁴
<i>Streptococcus pyogenes</i>	Not Detected		< 1x10 ⁵
Fungal Pathogens			
<i>Candida albicans</i>	Not Detected		< 1x10 ⁴
<i>Candida glabrata</i>	Not Detected		< 1x10 ³
<i>Candida krusei</i>	Not Detected		< 1x10 ⁵
<i>Candida tropicalis</i>	Not Detected		< 1x10 ⁴
<i>Candida parapsilosis</i>	Not Detected		< 1x10 ⁴



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Tested Resistance Genes			
Drug Class	Gene	Result	Reference Range
Methicillin	MecA	Not Detected	Not Detected
Carbapenems	KPC	Not Detected	Not Detected
Vancomycin	Van A/Van B	Not Detected	Not Detected

polyMIC* Comments
Antibiotic sensitivity determined. No sensitivity for any oral antibiotic was identified. See notes for Halo result, if present.

Antibiotic Sensitivity						
Antibiotic	Appropriate for Detected Pathogen:	S = Sensitive Demonstrated effectiveness	I = Intermediate Incomplete effectiveness	R = Resistant No effectiveness	H = Halo** Partial demonstrated effectiveness	Reference Range:
Nitrofurantoin	<i>E. coli, M. morganii</i>		I			S
Trimethoprim-Sulfamethoxazole	<i>E. coli, M. morganii</i>			R	H	S
Amoxicillin / Clavulanic Acid	<i>E. coli, M. morganii</i>			R	H	S
Ofloxacin	<i>E. coli, M. morganii</i>			R		S
Ciprofloxacin	<i>E. coli, M. morganii</i>			R		S
Levofloxacin	<i>E. coli, M. morganii</i>			R		S
Imipenem	<i>E. coli, M. morganii</i>	S				S
Meropenem	<i>E. coli, M. morganii</i>	S				S
Ertapenem	<i>E. coli, M. morganii</i>	S				S
Piperacillin /Tazobactam	<i>E. coli, M. morganii</i>	S				S
Fosmomycin	<i>E. coli</i>			R	H	S
Cefazolin	<i>E. coli, M. morganii</i>			R		S
Cephalexin	<i>E. coli</i>			R		S
Cefpodoxime	<i>E. coli</i>			R		S
Cefdinir	<i>E. coli</i>			R		S
Ceftriaxone	<i>E. coli, M. morganii</i>	S			H	S
Cefepime	<i>E. coli, M. morganii</i>	S			H	S
Aztreonam	<i>E. coli, M. morganii</i>	S			H	S
Tetracycline	<i>E. coli, M. morganii</i>			R		S
Doxycycline	<i>E. coli, M. morganii</i>			R		S

Halo Comments
Halos are only available for samples when no oral antibiotic was found to be sensitive. If Halos are present, refer to the table below for additional information regarding Sensitive and Resistance for a particular antibiotic.



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Halo Bacterial Identification				
Antibiotic	Organism(s)	S = Sensitive Demonstrated effectiveness	R = Resistant No effectiveness	Reference Range:
Trimethoprim-Sulfamethoxazole	<i>E. coli</i>		R	S
Trimethoprim-Sulfamethoxazole	<i>M. morganii</i>	S		S
Amoxicilin / Clavulanic Acid	<i>E. coli</i>	S		S
Amoxicilin / Clavulanic Acid	<i>M. morganii</i>		R	S
Fosmomycin	<i>E. coli</i>	S		S
Ceftriaxone	<i>E. coli</i>	S		S
Ceftriaxone	<i>M. morganii</i>		R	S
Cefepime	<i>E. coli</i>		R	S
Cefepime	<i>M. morganii</i>	S		S
Aztreonam	<i>E. coli</i>		R	S
Aztreonam	<i>M. morganii</i>	S		S

General Comments
None.

Notes

#Organisms/mL are based on the calculation of genome equivalents. One genome equivalent is theoretically equal to one colony forming unit (cfu).

* **polyMIC** testing is performed with a direct inoculation of the urine into the culture system. As a result, when multiple organisms are detected in the patient sample, individual susceptibility zone size cutoffs are not established. The polyMIC profile is used for urines with one or more organisms detected, based upon the laboratory's established zone size cutoffs for susceptibilities.

****Halo** observation is the result of both Sensitive and Resistant organisms responding to an antibiotic. Halo(s) is/are the antibiotic(s) that demonstrated effectiveness on a portion of the organisms detected. Halos are only available for samples when no oral antibiotic was found to be sensitive AND Candida spp. is not detected the sample.

Sensitive (S): indicates the organism(s) is susceptible to the antibiotic.

Intermediate (I): indicates the organism(s) is susceptible to the antibiotic but not at a level required to ensure effectiveness.

Resistant (R): indicates the organism(s) is not susceptible.

It is the physician's responsibility to interpret the results provided and determine the appropriate (if any) treatment options including antibiotic selection.

Questions including Clinical Consultation on Results: 240-813-8801 or info@cirrusdx.com

Notes: The molecular tests and antibiotic sensitivity test were developed and their performance characteristics were determined by CirrusDx. They have not been cleared or approved by the US Food and Drug Administration. The FDA does not require these tests to go through premarket FDA review. This test is used for clinical purposes. It should not be regarded as investigational or for research.

This report has been reviewed and approved.