

Patient:	Specimen: URINE	Physician:
DOB:	Received: MM/DD/YYYY 0:00PM	Phone: (000)000-0000
Patient ID:	Completed: MM/DD/YYYY	Fax: (000)000-0000
Gender:	Accession: 123456	Collected: MM/DD/YYYY 0:00 PM

### Comprehensive Identification (Sequencing Results)

MicroGen DX Laboratories' comprehensive testing (patent pending) is a relative quantitative universal test for bacteria/fungi. DNA sequencing methods are used to identify the microorganisms' genetic signatures and the estimated percentage of organisms present in the specimen. Virtually all bacteria/fungi are screened for and the most predominant populations are reported.

Rapid Screening (PCR Results)	Amount per mL	Comprehensive Identification (Sequencing Results)
Bacterial Load (Medium)	10 <sup>5</sup> -10 <sup>7</sup>	Detected Bacteria:
Enterococcus faecalis	5.03 x 10 <sup>4</sup>	Enterococcus faecalis 62%
Klebsiella pneumoniae	Not Detected	Lactobacillus crispatus 23%
Proteus mirabilis	Not Detected	Staphylococcus warneri 7%
Escherichia coli	Not Detected	Pseudomonas luteola 6%
Streptococcus agalactiae	Not Detected	Detected Fungi:
Candida albicans	Not Detected	Rhodotorula mucilaginosa
Pseudomonas aeruginosa	Not Detected	Alternaria alternata
Staphylococcus aureus	Not Detected	Cladosporium cladosporioides
Resistance Genes Detected		
Methicillin		
Resistance Genes Not Detected		
Vancomycin		
Beta-lactam		
Carbapenem		
Macrolide		
Aminoglycoside		
Tetracycline		

### Complete Antibiotic Analysis [Next Page(s)]

ANTIBIOTIC DISCLAIMER: Southwest Regional PCR, DBA MicroGen Diagnostics, LLC assumes no liability to patients with respect to the actions of physicians, health care facilities and other users, and is not responsible for any injury, death or damage resulting from the use, misuse or interpretation of information obtained through this antibiotic report. Therapeutic options listed by the program are based upon national antibiotic susceptibility data and antibiograms. Therapy should not be undertaken without a thorough assessment of the indications, contraindications and side effects of any prospective drug or intervention. Furthermore, the database is curated and derived from incidence and prevalence statistics whose accuracy will vary widely for individual diseases and regions of the country. Changes in endemicity, incidence, and drugs of choice may occur. The list of drugs, infectious diseases and even country names will vary with time. Although we endeavor to include such new information on a timely basis, a delay cannot be avoided. For more information please contact us at 1-855-208-0019

DISCLAIMER: (i) This test was developed and performance characteristics have been determined by Southwest Regional PCR, DBA MicroGen Diagnostics, LLC. It has not been cleared or approved by the U.S. Food and Drug Administration (FDA), however, the FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. Its use 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 laboratory testing. (ii) A negative result does not rule out the presence of PCR inhibitors, or DNA extraction inhibitors such as lidocaine, in patients specimens or microbial DNA concentrations below the level of detection of the assay. (iii) This test is performed pursuant to an agreement with Roche Molecular Systems, Inc. (iv) Relative quantitation of swabs refers to analyte load levels of <10<sup>5</sup>, 10<sup>5</sup> to 10<sup>7</sup>, and >10<sup>7</sup> for low, medium and high respectively.

Class	Generic	Topical	PO	IV	Resp	Gram	68	62	7	27	2	23	6		
						N	Rhodotorula mucilaginosa	+	Enterococcus faecalis	+	Staphylococcus warneri	+	Enterococcus faecalis	N	Alternaria sp
anti-fungal allylamine	terbinafine hcl		✓	✓	✓						✓				
anti-fungal azole	ketoconazole		✓	✓	✓										
	itraconazole		✓							✓	✓				
	posaconazole		✓							✓					
	voriconazole	✓	✓								✓				
anti-fungal polyene	flucytosine		✓		✓										
	amphotericin b	✓			✓				✓						
Aminoglycoside	amikacin	✓		✓		✓		✓				✓			
Extended spectrum penicillin/beta-lactamase inhibitor	amoxicillin/clavulanate (Augmentin)*		✓			✓		✓							
fluorquinolones	levofloxacin*	✓	✓			✓		✓							
	ciprofloxacin (Cipro)*	✓	✓	✓									✓		
Glycopeptide	vancomycin	✓		✓		✓	✓	✓				✓			
	nitrofurantoin		✓			✓		✓			✓				
	tmp/smx (Bactrim)	✓	✓	✓		✓		✓							
Oxazolidine	linezolid	✓	✓	✓		✓	✓	✓			✓				
penicillins	penicillin v		✓			✓		✓							
Antimycobacterial	rifampin	✓	✓				✓								
anti-psuedomonal penicillins	piperacillin/tazobactam*	✓		✓							✓	✓			
lincosamide	clindamycin (Cleocin)	✓	✓	✓							✓				
Macrolide	clarithromycin		✓								✓				
Carbapenem	doripenem*	✓										✓			
Polymyxin antibiotic	colistimethate (colistin)	✓		✓								✓			

Gram Stain  
+: Positive, -: Negative, I:Indeterminate, N: not applicable U: Unknown  
Respiration  
Ae: Aerobic, An: Anaerobic, FAn: Facultative anaerobic, Unk: Unknown  
\* Resistance genes found. Consultation with a pharmacist on an appropriate course of treatment with recommendations made at the discretion of the physician based on known interaction and concentrations is recommended.