



MICROGEN DIAGNOSTICS

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PATIENT	PATIENT NAME	SPECIMEN	URINE	PHYSICIAN	Langford, Timothy
DOB	MM/DD/YYYY	RECEIVED	MM/DD/YYYY	PHONE	(###)###-####
PATIENT ID	PATIENT ID	COMPLETED	MM/DD/YYYY	FAX	(###)###-####
GENDER	Male	ACCESSION	ACCESSION #	COLLECTED	MM/DD/YYYY

qPCR TESTS FOR BACTERIA			FUNGI	STIs	RESISTANCE GENES	
Enterococcus faecalis	Klebsiella pneumoniae	Streptococcus agalactiae	None	None	Vancomycin	Methicillin
Pseudomonas aeruginosa	Staphylococcus aureus	Escherichia coli			Beta-lactam	Aminoglycoside
Proteus mirabilis	Mobiluncus curtisii	Mobiluncus mulieris			Tetracycline	Carbapenem
Gardnerella vaginalis	Staphylococcus saprophyticus	Ureaplasma urealyticum			Macrolide	Quinolone
Ureaplasma parvum	Mycoplasma hominis	Prevotella bivia				
Lactobacillus crispatus/acidophilus	Lactobacillus gasseri					

Next Generation Sequencing Results

MicroGen Diagnostics' 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.

ANTIBIOTIC CLASSES AND MOST-COMMONLY USED EXAMPLES			
CLASS	GENERIC formulations	CLASS	GENERIC formulations
Allylamines	Amorolfine; Naftifine	Flucytosine	5-fluorocytosine (Ancobon)
Aminoglycosides	Gentamycin; Tobramycin	Fluoroquinolones	Norfloxacin(PO); Levofloxacin; Oxafloxacin(PO)
Aminoglycosides+Aminopenicillins	Ampicillin/Gentamicin	Glycopeptides	Vancomycin; Teicoplanin
Aminopenicillins	Amoxicillin; Ampicillin(PO)	Imidazoles	Ketoconazole(PO); Clotrimazole; Oxiconazole
Antifolates	TMP/SMX	Lipopeptides	Daptomycin
Anti-Pseudomonal Penicillins	Piperacillin; Nafcillin	Macrolides	Erythromycin; Azithromycin(PO)
Anti-Pseudomonal penicillins/Beta-lactamase inhibitors	Piperacillin/Tazobactam	Naphthyridones	Nalidixic acid
Anti-tuberculosis	Isoniazid; Rifampin; Streptomycin	Oxacephems	Moxalactam
Aztreonam	Azactam	Penicillins	Penicillin G; Penicillin V(PO)
Carbapenems	Cilistatin/Imipenem; Meropenem	Polyenes	Natamycin; Amphotericin B
Cephalosporins First Gen	Cephalexin(PO); Cefazolin	Polyenes+Flucytosine	Amphotericin B/5-fluorocytosine
Cephalosporins Fourth Gen	Cefepime	Quinolones	Ciprofloxacin (PO); Levofloxacin; Moxifloxacin(PO)
Cephalosporins Second Gen	Cefprozil; Cefotetan	Tetracyclines	Doxycycline(PO); Minocycline
Cephalosporins Third Gen	Cefixime; Cefdinir; Ceftazidime	Triazoles	Fluconazole(PO); Terconazole
Cephamecins	Cefoxitin	Triazoles+Echinocandins	Voriconazole/Anidulafungin
Echinocandins	Caspofugin; Micafungin		
Extended spectrum penicillins / Beta-lactamase inhibitors	Amoxicillin / Clavulanate(PO); Ampicillin / Sulbactam		

Complete Antibiotic Analysis

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 855-208-0019.

DISCLAIMER: (i) This test was developed and performance characteristics have been determined by Southwest Regional PCR Laboratory dba MicroGen DX. 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 $< 10^5$, 10^5 to 10^7 , and $> 10^7$ for low, medium and high respectively.

ANTIBIOTIC ANALYSIS

This antimicrobial recommendation sheet is not based on antibiotic sensitivities but is based on antimicrobial reference guides such as the John Hopkins ABX Guide.