



MICROGEN DIAGNOSTICS

2002 W LOOP 289, SUITE 116 | LUBBOCK, TX 79407 FAX: 1-407-204-1401 | PHONE: 1-855-208-0019

PATIENT	Sample Report MG001	SPECIMEN	Urine 08:30	PHYSICIAN	Sharma, Rajendra
DOB	xx/xx/xxxx	RECEIVED DATE	07/20/2022	PHONE	-
PATIENT ID		REPORTED DATE	07/20/2022 4:17 PM	FAX	-
GENDER	Male	COLLECTED DATE	07/15/2022	ACCESSION	

RESISTANCE GENES DETECTED

Tetracycline tetM

	ANTIMICROBIALS FOR CONSIDERATION																	
LEVEL 1 PCR REPOR	T				openicillins cin		iicillins/Beta- I. Augmentin	evofloxacin		comycin		in	pido	_				
THIS IS A PRELIMINARY R NEXT GENERATION SEQU RESULTS ARE PENDING REPORT WILL BE AVAIL TYPICALLY IN 3-5 BUSINES	JENCING G. THE LABLE SS DAYS.	3	Gram Stain	Gram Stain Respiration	Aminoglycosides+Aminopenicillins e.g. Ampicillin/Gentamicin	Ampicillin/Amoxicillin	Extended spectrum penicillins/Beta- lactamase inhibitors e.g. Augmentin	Fluoroquinolones e.g. Levofloxacin	Fosfomycin	Glycopeptides e.g Vancomycin	Linezolid (Zyvox)	Lipopeptides e.g. Cubicin	Nitrofurantoin e.g. Macrobid	Penicillins e.g. Penicillin				
RAPID SCREENING (PCR RESULTS)			iram	esp														
BACTERIAL LOAD Medium	10 ⁵ -10 ⁷				IV	PO	PO	PO	PO	IV	PO	IV	PO	PO				
Enterococcus faecalis	1.39 x 10 ⁶		+	FAn	\checkmark	V		V		\checkmark	\checkmark	\checkmark	\checkmark					
FUNGI DETECTED									GAI	6 6		~~	NC	חבי				
							N I I F		GAI	_3 r		00	UN 3	ושע				
None																		

DNA copies per mL: [NGS] = Detected by Next-Gen Seq. Only Bacterial Load: < 10⁵ = LOW 10⁵ to 10⁷ = MED > 10⁷ = HIGH

Gram Stain: [+] = Positive [-] = Negative [V] = Variable [N] = Not Applicable [U] = Unknown

Respiration: [Ae] = Aerobic [An] = Anaerobic [Fan] = Facultative anaerobic [Unk] = Unknown

LAB REPORT KEY

Antimicrobial: [v] = Proven to be effective. [R] = Resistance genes detected. []=Empty Fields denote Unknown. [PO]= Available in Oral formulations. [IV] = Intravenous; [TP] = Topical.

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c	PCR TESTS FOR BACTERI	A	FUNGI	STIs	RESISTANCE	E GENES
Enterococcus faecalis Klebsiella pneumoniae Streptococcus agalactiae		Streptococcus agalactiae	Candida albicans	None	Vancomycin	Methicillin
Staphylococcus aureus Escherichia coli		Mobiluncus curtisii			Extended-Spectrum Beta-	Beta-lactam
Mobiluncus mulieris Gardnerella vaginalis		Ureaplasma urealyticum			Lactamase	Tetracycline
Ureaplasma parvum Mycoplasma hominis		Prevotella bivia			Aminoglycoside	Macrolide
					Carbapenem	Bactrim
					Quinolone	

Antimicrobial class reported as resistant are based on the detected resistance genes included in the qPCR and the published activity and spectrum of resistance for each gene. Resistance mechanisms other that the included in this panel may confer resistance not detected by the resistance genes included in the panel.

The following genes are included in the panel:

mecA: methicillin resistance (applies only to Staphylococcus spp.)

•vanA: vancomycin resistance (applies only to Enterococcus spp.)

•CTX-M: Extended Spectrum Beta-lactamase (applies to all Gram-negative organisms)

• KPC, NDM & OXA48: carbapenemases (applies to all Gram-negative organisms)

•ermB: macrolide resistance (applies only to Gram-positive organisms

•qnr & gyrA: quinolone resistance (applies to all organisms)

tetB & tetM: tetracycline resistance (applies to all organisms)
aacC6-aph3 & ant-la-aph2: aminoglycoside resistance (applies to all organisms)

•sul I, sul II: bactrim resistance(applies to all Gram-negative organisms except Neisseria, Moraxella, Veillonella, Megasphaera, Acidaminococcus, Negativicoccus, Paracoccus,

Syntrophococcus, Pseudomonas)

•TEM, SHV: beta-lactam resistance (applies only to Escherichia coli and Proteus mirabilis)

Rapid Screening (PCR Results)

MicroGen Diagnostics Rapid Screening testing is used to rapidly analyze samples for the most commonly found bacteria and fungi in clinical samples of many different types. The sample composition is identified by quantitative PCR analysis with a specified panel of microorganisms. Bacterial and fungal amounts per mL (or mg) based upon standard curves for each target specific organism and 16S. All tests are performed in a CAP and CLIA accredited laboratory.

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;					
Aminoglycosides+Aminopenicillins	Ampicillin/Gentamicin		Oxafloxacin(PO); Ciprofloxacin(PO)					
Aminopenicillins	Amoxicillin; Ampicillin(PO)	Glycopeptides	Vancomycin; Teicoplanin					
Antifolates	TMP/SMX	Imidazoles	Ketoconazole(PO); Clotrimazole;					
Anti-Pseudomonal Penicillins	Piperacillin; Nafcillin		Oxiconazole					
Anti-Pseudomonal penicillins/Beta-	Piperacillin/Tazobactam	Lipopeptides	Daptomycin					
lactamase inhibitors		Macrolides	Erythromycin; Azithromycin(PO)					
Anti-tuberculosis	Isoniazid; Rifampin; Streptomycin	Naphthyridones	Nalidixic acid					
Aztreonam	Azactam	Oxacephems	Moxalactam					
Carbapenems	Cilistatin/Imipenem; Meropenem	Penicillins	Penicillin G; Penicillin V(PO)					
Cephalosporins First Gen	Cephalexin(PO); Cefazolin	Polyenes	Natamycin; Amphotericin B					
Cephalosporins Fourth Gen	Cefepime	Polyenes+Flucytosine	Amphotericin B/5-fluorocytosine					
Cephalosporins Second Gen	Cefprozil; Cefotetan	Tetracyclines	Doxycycline(PO); Minocycline					
Cephalosporins Third Gen	Cefixime; Cefdinir; Ceftazidime	Triazoles	Fluconazole(PO); Terconazole					
Cephamycins	Cefoxitin	Triazoles+Echinocandins	Voriconazole/Anidulafungin					
Echinocandins	Caspofugin; Micafungin							
Extended spectrum penicillins /	Amoxicillin / Clavulanate(PO);							
Beta-lactamase inhibitors	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.





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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 < 10⁵, 10⁵ to 10⁷, and > 10⁷ for low, medium and high respectively. Southwest Regional PCR Laboratory dba MicroGen DX licenses are CLIA 45D1086390 and CAP 7214171.

ANTIBIOTIC ANALYSIS

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