



MICROGEN DIAGNOSTICS

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

PATIENT	PATIENT NAME	SPECIMEN	T5	PHYSICIAN	Dy, Angeline
DOB	MM/DD/YYYY	RECEIVED	MM/DD/YYYY	PHONE	(###)###-####
PATIENT ID	PATIENT ID	COMPLETED	MM/DD/YYYY	FAX	(###)###-####
GENDER	Female	ACCESSION	ACCESSION #	COLLECTED	MM/DD/YYYY

RESISTANCE GENES DETECTED

Methicillin, Aminoglycoside

						AN	ITIN	IICR	OB	IAL	RE	COI	ИМЕ	END	ΑΤΙ	ON		
LEVEL 2 NGS REPORT					mycin		/cline			Levofloxacin		llins e.g.	ı e.g. Keflex					
COMPREHENSIVE IDENTIFICATION NEXT-GEN DNA SEQUENCING RESULTS with PRIOR PCR RESULTS.			Gram Stain	Respiration	Glycopeptides e.g Vancomycin	Antifolates e.g Bactrim	Tetracyclines e.g. Doxycycline	Linezolid (Zyvox)	Clindamycin	ones e.g.	Lipopeptides e.g. Cubicin	Anti-Pseudomonal Penicillins Mezlin	Cephalosporins First Gen					
COMPLETE (NGS & PCR RESULTS)	DNA copies per g	NGS	am	idse								R	R					
BACTERIAL LOAD Medium	10 ⁵ -10 ⁷	%	Ō	Ř	IV	PO	PO	PO	PO	PO	IV	IV	PO					
Staphylococcus pettenkoferi	NGS	59%	+	FAn	\checkmark	\checkmark	\checkmark											
Staphylococcus lugdunensis	NGS	26%	+	FAn	\checkmark													
Staphylococcus capitis	NGS	5%	+	FAn	\checkmark													
Staphylococcus piscifermentans	NGS	3%	+	FAn	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark								
Corynebacterium tuberculostearicum	NGS	2%	+	FAn	\checkmark		V	\checkmark			\checkmark							
FUNGI DETECTED		%						- IFU		A I . I								
None %							AN I	IFU	NG	ALI					4110			

	LAB REPORT KEY								
DNA copies per g:	Gram Stain:	Respiration:	Antimicrobial:						
[NGS] = Detected by Next-Gen Seq. Only	[+] = Positive	[Ae] = Aerobic	[v] = Proven to be effective.						
Bacterial Load: < 10 ⁵ = LOW	[-] = Negative	[An] = Anaerobic	[R] = Resistance genes detected.						
10 ⁵ to 10 ⁷ = MED	[V] = Variable	[Fan] = Facultative anaerobic	[]=Empty Fields denote Unknown.						
> 10 ⁷ = HIGH	[N] = Not Applicable	[Unk] = Unknown	[PO]= Available in Oral formulations.						
	[U] = Unknown		[IV] = Intravenous; [TP] = Topical.						

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Original



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qPCR TESTS FOR BACTERIA			FUNGI	STIs	RESISTAN	CE GENES
Enterococcus faecalis Enterococcus faecium	Streptococcus agalactiae Pseudomonas aeruginosa	Streptococcus pyogenes Staphylococcus aureus	Candida albicans Trichophyton rubrum	None	Vancomycin Extended-Spectrum Beta- Lactamase Aminoglycoside Carbapenem Quinolone	Methicillin Beta-lactam Tetracycline Macrolide

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;						
Aminoglycosides+Aminopenicillins	Ampicillin/Gentamicin		Oxafloxacin(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	Quinolones	Ciprofloxacin (PO); Levofloxacin;						
Cephalosporins Third Gen	Cefixime; Cefdinir; Ceftazidime		Moxifloxacin(PO)						
Cephamycins	Cefoxitin	Tetracyclines	Doxycycline(PO); Minocycline						
Echinocandins	Caspofugin; Micafungin	Triazoles	Fluconazole(PO); Terconazole						
Extended spectrum penicillins /	Amoxicillin / Clavulanate(PO);	Triazoles+Echinocandins	Voriconazole/Anidulafungin						
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.

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°, 10° to 10°, and > 10° 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.