

Organism	Results	Est. Microbial Load*
Bacteria/Viral		
Finegoldia magna	Not Detected	Not Detected
Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii	Detected	Low
Proteus mirabilis, vulgaris	Not Detected	Not Detected
Streptococcus agalactiae (Group B Strep)	Not Detected	Not Detected
Staphylococcus aureus	Detected	Low
Stenotrophomonas maltophilia	Not Detected	Not Detected
Serratia marcescens	Not Detected	Not Detected
Salmonella enterica	Not Detected	Not Detected
Streptococcus pneumoniae	Not Detected	Not Detected
Streptococcus pyogenes (Group A strep)	Not Detected	Not Detected
Vibrio cholerae, parahaemolyticus, vulnificus	Not Detected	Not Detected

Antibiotic Resistance

Resistance Gene(s)	Antibiotic Class	Results
IMP, NDM, VIM Groups	Class B metallo beta lactamases	Not Detected
ACT, MIR, FOX, ACC Groups	AmpC beta lactamase	Not Detected
dfr (A1, A5), sul (1,2) probes	Trimethoprim/ Sulfamethoxazole resistance	Not Detected
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups	Class A beta lactamases	Not Detected
SHV, KPC Groups	Class A beta lactamases	Not Detected
ermB, C; mefA	Macrolide Lincosamide Streptogramin Resistance Gene	Not Detected
mecA	Methicillin Resistance Gene	Detected
OXA-48, 51 Groups	Class D oxacillinases	Not Detected
qnrA1, A2, B2	Fluoroquinolone Resistance Gene	Detected
tet B, tet M	Tetracycline Resistance Gene	Detected
VanA, VanB	Vancomycin Resistance Genes	Detected

Disclaimer:

The test method used to generate the above results is semi-quantitative real-time polymerase chain reaction (qPCR).This test was developed and its performance characteristics determined by Ability Diagnostics, LLC. The performance characteristics for this assay are available upon request. It has not been cleared or approved by the US Food and Drug Administration. The FDA does not require this test to go through premarket FDA review. The laboratory is certified under the Clinical Laboratory Improvement Amendments (CLIA) as well as the College of American Pathologists (CAP) as qualified to perform high-complexity clinical laboratory testing. This test is used for clinical purposes. It should not be regarded as investigational or for research.

	mecA	qnrA1, A2, B2	tet B, tet M	VanA, VanB	Cutibacterium (Propionibacterium) acnes	Mycoplasma genitalium, hominis	Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii	Staphylococcus aureus
Polymyxin B (IV/IM/OP)	x				0	0	0	0
Colistin (IV/IM/OT)	x				0	0	0	0
Trimethoprim-sulfamethoxazole (po/IV)					+-	0	0	+
Metronidazole (po/IV)					0	0	+-	0

Antibiotic Table Legend:

X: Antimicrobial resistance gene present, precluding use of this antibiotic for pertinent bacterial Genera
(++): Generally, greater than 90% of bacterial cultural isolates are sensitive
(+): Generally, approximately 70-90% of bacterial cultural isolates are sensitive.
(±): Variable activity antimicrobial. Generally, about 50-70% of bacterial cultural isolates are sensitive.
(0): Non-Recommended antimicrobial.
(?): Insufficient Data to recommend antimicrobial; consult local/regional antibiogram.
Note: Personalized (patient specific) data included in this report, are a correlation of detected microb4genes detectedresistance genes (if any), with reported national antimicrobial sensitivity data. Microbial culture and antimicrobial sensitivitytesting are not performed at this lab
Administration Mode: po = oral, IV = intravenous, IM = intramuscular, OP = ophthalmic, OT = otic. Not alladministration modes are covered, and some antibiotics might not be available in the US (please refer to www.pdr.net for current information).

Tested Assay Results

Wound Infectious Disease Pathogens

Organism	Results	Est. Microbial Load*
Bacteria/Viral		
Acinetobacter baumannii	Not Detected	Not Detected
Bacteroides fragilis, vulgatus	Not Detected	Not Detected
Burkholderia cepacia, pseudomallei	Not Detected	Not Detected
Citrobacter freundii	Not Detected	Not Detected
Clostridium perfringens, novyi, septicum	Not Detected	Not Detected
Staphylococcus (coagulase negative: epidermidis, haemolyticus, lugdunensis, saprophyticus)	Not Detected	Not Detected
Corynebacterium jeikeium, striatum, tuberculostrictum	Not Detected	Not Detected
Escherichia coli	Not Detected	Not Detected
Enterobacter aerogenes, cloacae	Not Detected	Not Detected
Enterococcus faecalis, faecium	Not Detected	Not Detected
Fusobacterium necrophorum	Not Detected	Not Detected
Human herpes virus 3 (Varicella zoster virus)	Not Detected	Not Detected
Herpes simplex virus 1 and 2 (HSV-1, HSV-2)	Detected	Moderate
Klebsiella pneumoniae, oxytoca	Not Detected	Not Detected
Mycobacterium marinum, ulcerans	Not Detected	Not Detected
Mycobacterium abscessus, chelonae, fortuitum	Not Detected	Not Detected
Mycobacterium avium-intracellulare, kansasii	Detected	Low
Mycoplasma genitalium, hominis	Detected	Low
Cutibacterium (Propionibacterium) acnes	Detected	Low
Pseudomonas aeruginosa	Not Detected	Not Detected

	mecA	qnrA1, A2, B2	tet B, tet M	VanA, VanB	Cutibacterium (Propionibacterium) acnes	Mycoplasma genitalium, hominis	Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii	Staphylococcus aureus
Penicillin VK (po)	x				+	0	++	0
Penicillin G (IM)	x				++	0	++	0
Nafcillin (IV/IM)	x				?	0	0	++
Dicloxacillin (po)	x				?	0	0	++
Ampicillin (IV/IM/po)	x				+	0	++	+-
Amoxicillin (po)	x				+	0	++	+-
Amoxicillin-clavulanate (po)	x				+	0	+	+
Ampicillin-sulbactam (IV/IM)	x				+	0	+	+
Piperacillin-tazobactam (IV)	x				+	0	+	+
Ertapenem (IV/IM)	x				+	0	+	+
Imipenem (IV/IM)	x				+	0	+	+
Meropenem (IV)	x				+	0	+	+
Meropenem-vaborbactam (IV)	x				+	0	+	+
Aztreonam (IV/IM)	x				0	0	+	0
Ciprofloxacin (po/OT/OP/IV)		x			0	+-	+	0
Delafloxacin (po/IV)		x			0	+-	+	+
Levofloxacin (po/OT/OP/IV)		x			+-	+	+	+
Moxifloxacin (po/OP/IV)		x			+-	++	+	+
Cefazolin (IV/IM)	x				+	0	+	++
Cefoxitin (IV)	x				+	0	+	+
Cefuroxime (po/IV/IM)	x				+	0	+	+
Cefotaxime (IV/IM)	x				+	0	+	+
Ceftriaxone (IV/IM)	x				++	0	+	+
Ceftazidime (IV/IM)	x				+	0	+	+-
Cefepime (IV/IM)	x				+	0	+	0
Ceftazidime-avibactam (IV)	x				+	0	+	+-
Ceftaroline (IV)					+	0	+	+
Ceftolozane-tazobactam (IV)	x				+	0	+	?
Cefadroxil (po)	x				+	0	+	+
Cephalexin (po)	x				0	0	+	+
Cefaclor (po)	x				+	0	+	+
Cefprozil (po)	x				+	0	+	+
Cefpodoxime (po)	x				?	0	+	+
Cefdinir (po)	x				?	0	?	+
Cefditoren (po)	x				?	0	?	+
Gentamicin (IV/IM/OP)					+	0	0	+-
Tobramycin (IV/IM/OP)					?	0	0	+-
Amikacin (IV/IM)					?	0	0	+-
Clindamycin (po/IV/IM)					+-	+-	+	+
Azithromycin (po/IV/OP)					+-	0	+-	+-
Clarithromycin (po)					+-	0	+-	+-
Doxycycline (po/IV)			x		+	+	+-	+
Minocycline (po/IV)			x		+	?	+-	+
Tigecycline (IV)					+	?	+-	+
Daptomycin (IV)					+	0	+-	+
Vancomycin (po/IV/OP)				x	+	0	+-	+
Telavancin (IV)					+	0	+-	+
Oritavancin (IV)					+	0	+-	+
Dalbavancin (IV)					+	0	+-	+
Linezolid (po/IV)					0	+	+-	+
Tedizolid (po/IV)					0	?	?	+

Molecular Pathology Report

Patient Information

Name: Sparkle Toes
DOB: 08/15/1975
Gender: Female

Provider Information

Provider Name: Wound Care Inc
Provider Name: Andy Anderson
Address: 123 Main Street, Salt Lake City, UT 84101
Phone: 801-555-1212
NPI: N/A

Specimen Information

Accession Number: 220303-0003-W
Sample Type: Wound
Collection Site: Knee
Collection Date: 03/02/2022
Receive Date: 03/03/2022
Report Date: 03/17/2022

Detected Results Summary

Antibiotic Resistance

	Results
mecA	Detected
Potential resistance to methicillin. Staphylococcus is the typical genus known to harbor this gene.	
qnrA1, A2, B2	Detected
tet B, tet M	Detected
Potential resistance to tetracycline, doxycycline, minocycline. Bacterial genera potentially affected (non-inclusive list): Acinetobacter, Bacillus, Bacteroides, Clostridium, Corynebacterium, Enterobacter, Enterococcus, Escherichia, Fusobacterium, Haemophilus, Klebsiella, Listeria, Moraxella, Mycoplasma, Neisseria, Peptostreptococcus, Pseudomonas, Salmonella, Serratia, Shigella, Staphylococcus, Streptococcus, Ureaplasma, Vibrio, Yersinia.	
VanA, VanB	Detected

Wound Infectious Disease Pathogens

Bacteria/Viral

	Results	Est.Copies/mL	Est. Microbial Load*
Herpes simplex virus 1 and 2 (HSV-1, HSV-2)	Detected	2.75 X 10 ⁵	Moderate
Mycobacterium avium-intracellulare, kansasii	Detected	7.65 X 10 ³	Low
Mycoplasma genitalium, hominis	Detected	1.75 X 10 ⁴	Low
Cutibacterium (Propionibacterium) acnes	Detected	2.51 X 10 ³	Low
Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii	Detected	7.67 X 10 ³	Low
Staphylococcus aureus	Detected	9.89 X 10 ³	Low

Fungal

Trichophyton mentagrophytes/ interdigitale, rubrum, soudanense, terrestre	Detected	4.05 X 10 ³	Low
Trichophyton tonsurans, verrucosum, violaceum	Detected	1.1 X 10 ⁴	Low
Trichosporon mucoides, asahii	Detected	7.43 X 10 ³	Low

Personalized Comprehensive Antibigram (see Legend and Note below)