

Patient Name

Patient DOB

Patient Age

Patient Sex

Provider

Practice

Specimen Type
Nail Clippings

Specimen Identifier
SP000-000-000

Collected
03/06/2024 03:40pm

Received
03/07/2024 12:38pm

Reported
03/08/2024 09:33pm


Targets Detected

Target	Type	Result	Estimated Microbial Load
Coagulase Negative Staph	Bacterial	Detected	100,000+ CFU/mL
Staphylococcus epidermidis	Bacterial	Detected	10,000 - 100,000 CFU/mL

Targets Not Detected

Target	Type	Result	Estimated Microbial Load
Class A Beta-lactamases Resistance	ABRX	Not Detected	Not Detected
Class B Metallobeta-lactamases Resistance	ABRX	Not Detected	Not Detected
Class D Oxacillinases Resistance (OXA-23, OXA-72, OXA-40, OXA-48)	ABRX	Not Detected	Not Detected
Extended Spectrum Beta-lactamases	ABRX	Not Detected	Not Detected
Fluoroquinolones Resistance (QnrA, QnrB, QnrS)	ABRX	Not Detected	Not Detected
Macrolides Resistance	ABRX	Not Detected	Not Detected
Methicillin Resistance (mecA)	ABRX	Not Detected	Not Detected
Minor Extended Spectrum Beta Lactamase Resistance	ABRX	Not Detected	Not Detected
Sulfonamide Resistance (dfrA1/A5)	ABRX	Not Detected	Not Detected
Tetracycline Resistance	ABRX	Not Detected	Not Detected
Vancomycin Resistance	ABRX	Not Detected	Not Detected
Corynebacterium striatum/riegelii	Bacterial	Not Detected	Not Detected
Enterobacter cloacae	Bacterial	Not Detected	Not Detected
Enterococcus faecalis	Bacterial	Not Detected	Not Detected
Escherichia coli	Bacterial	Not Detected	Not Detected
Finegoldia magna	Bacterial	Not Detected	Not Detected

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Targets Not Detected (continued)

Target	Type	Result	Estimated Microbial Load
Staphylococcus aureus	Bacterial	Not Detected	Not Detected
Staphylococcus haemolyticus	Bacterial	Not Detected	Not Detected
Staphylococcus saprophyticus	Bacterial	Not Detected	Not Detected
Streptococcus agalactiae	Bacterial	Not Detected	Not Detected
Streptococcus pyogenes	Bacterial	Not Detected	Not Detected
Candida albicans	Fungal	Not Detected	Not Detected
Candida dubliniensis	Fungal	Not Detected	Not Detected
Candida glabrata	Fungal	Not Detected	Not Detected
Candida krusei	Fungal	Not Detected	Not Detected
Candida lusitaniae	Fungal	Not Detected	Not Detected
Candida parapsilosis	Fungal	Not Detected	Not Detected
Candida tropicalis	Fungal	Not Detected	Not Detected
E. floccosum	Fungal	Not Detected	Not Detected
Trichophyton interdigitale/tonsurans/ mentagrophytes	Fungal	Not Detected	Not Detected
Trichophyton rubrum	Fungal	Not Detected	Not Detected

Methodology

Total nucleic acid extraction is performed using DNA MagMax MVPII Kits, which are validated by their manufacturer to yield isolated nucleic acids of sufficient quantity and quality from the relevant sample types. Presence of either pathogenic nucleic acids and/or genetic markers documented to confer resistance to antimicrobial compounds was determined by conducting RT-PCR reactions with primers designed to target species-specific (or marker-specific) genomic regions. RT-PCR reactions were either conducted in single-reaction wells, or through OpenArray methodologies. Bacterial and fungal targets may be reported semi-quantitatively with microbial load estimates calculated based on Crt comparisons with controls of known concentrations. All sample runs contain a minimum of one negative extraction control (NEC), one negative template control (NTC), and one positive control of known pathogenic/ABX marker composition (PTC). All RT-PCR reactions are conducted using TaqMan chemistry from Thermo Fisher. Nucleic acid-based pathogen detection is performed on the QuantStudio 12K platform. This platform was designed by Applied Biosystems, Inc. and utilizes quantitative real-time PCR in conjunction with fluorescently-labelled nucleic acid probes. A DETECTED result signifies that amplification of genus, species, or marker-specific (dependent on the analyte) genetic markers was observed, based on validated detection metrics.

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Disclaimer and Limitations

Nucleic acid-based pathogen detection (PD) is a laboratory-developed test (LDT) and as such, is not cleared by the FDA. Pathogen and antimicrobial marker screening at Lifetime Sciences does not screen for the presence of all pathogens documented to cause infections in the referenced tissues, nor every genetic markers documented to confer antimicrobial resistance. There may also be pathogens and resistance markers present that are not screened for nor previously documented. Nucleic acid-based pathogen detection analysis is intended to aid physicians in identifying underlying pathogens within a patient sample to help advise on possible treatment avenues. It should not be used in the contexts of diagnosis or supplant physician recommendations. These results should be interpreted along with clinical presentations and/or other laboratory results. These results and their clinical interpretations may not be accurate if the patient information/sample supplied is incomplete or inaccurate. If these results do not match clinical presentations, additional testing is recommended. The LDTs reported here were developed and had its performance metrics determined by Lifetime Sciences. Lifetime Sciences is certified under the Clinical Laboratory Improvements Act (CLIA) to perform high-complexity clinical laboratory testing. For other questions/concerns, please contact Lifetime Sciences.