Respiratory Pathogen Panel

Order RD000-063-944

Patient: Jane Doe
DOB: 01/01/1902
Gender: Female

Provider: Albert C Domm
Practice: Lifetime Sciences Test Account
4037 Rural Plains Circle, Suite 150
Franklin, TN, 37064

Specimen: Swab - Nasopharyngeal
Identifier: SP000-063-923
Collected: 06/02/2022 02:18pm
Received: 06/02/2022 02:28pm
Reported: 06/03/2022 10:32am

Targets Not Detected			
Target	Type	Result	Estimated Microbial Load
Bordetella pertussis	Bacteria	Not Detected	Not Detected
Bordetella pertussis/parapertussis/ bronchiseptica	Bacteria	Not Detected	Not Detected
Chlamydophila pneumoniae	Bacteria	Not Detected	Not Detected
Haemophilus influenzae	Bacteria	Not Detected	Not Detected
Klebsiella pneumoniae complex	Bacteria	Not Detected	Not Detected
Legionella pneumophila	Bacteria	Not Detected	Not Detected
Mycoplasma pneumoniae	Bacteria	Not Detected	Not Detected
Staphylococcus aureus	Bacteria	Not Detected	Not Detected
Streptococcus pneumoniae	Bacteria	Not Detected	Not Detected
Adenovirus	Viral	Not Detected	Not Detected
Enterovirus	Viral	Not Detected	Not Detected
Enterovirus D68	Viral	Not Detected	Not Detected
HH6 (Human Herpes Virus 6)	Viral	Not Detected	Not Detected
HHV4 (Epstein-Barr Virus)	Viral	Not Detected	Not Detected
HHV5 (Cytomegalovirus)	Viral	Not Detected	Not Detected
Human Coronavirus 229E	Viral	Not Detected	Not Detected
Human Coronavirus HKU1	Viral	Not Detected	Not Detected
Human Coronavirus NL63	Viral	Not Detected	Not Detected
Human Coronavirus OC43	Viral	Not Detected	Not Detected
Human Metapneumovirus	Viral	Not Detected	Not Detected
Influenza A-H1/2009	Viral	Not Detected	Not Detected
Influenza A	Viral	Not Detected	Not Detected
Influenza A H3	Viral	Not Detected	Not Detected
Influenza B	Viral	Not Detected	Not Detected
Parainfluenza 1	Viral	Not Detected	Not Detected
Parainfluenza 2	Viral	Not Detected	Not Detected
Parainfluenza 3	Viral	Not Detected	Not Detected
Parainfluenza 4	Viral	Not Detected	Not Detected
Respiratory Syncytial Virus A	Viral	Not Detected	Not Detected
Respiratory Syncytial Virus B	Viral	Not Detected	Not Detected
Rhinovirus	Viral	Not Detected	Not Detected

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Targets Not Detected (continued)

Target	Type	Result	Estimated Microbial Load
SARS-CoV-2 (COVID-19)	Viral	Not Detected	Not Detected
SARS-CoV-2 (COVID-19)	Viral	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.

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.