

SPECIMEN ID: SRR525047

REPORT DATE: 03 September 2020

DATE OF BIRTH: Not Provided

SEX: Not Provided

SESSION ID: f1d1cdaf07c14269b87ecbeb2d7a1f55

ANALYSIS ID: 274555397

SUBMITTER:

ANALYSIS VERSION: 1.0.0

SPECIMEN RECEIVED: 01 September 2020 DATE OF COLLECTION: Not Provided SPECIMEN TYPE: Not Provided

Analysis Performed: Explify Respiratory ID/AMR Panel - Data Analysis Solution

For Research Use Only. Not for use in diagnostic procedures.

RESULTS: ONE OR MORE POTENTIAL PATHOGENS DETECTED

READ CLASSIFICATION: 83.2% TARGETED 4.0% Ambiguous 2.2% Unclassified 9.6% Untargeted

VIRUSES

SARS-CoV-2 Influenza A virus (H1N1)

BACTERIA

Staphylococcus aureus Escherichia coli

∰ FUNGI

Pneumocystis jirovecii

CONFIDENCE SCORE

3.00 (High) 2.12 (High)

CONFIDENCE SCORE

2.75 (High) 0.83 (Low)

CONFIDENCE SCORE

2.90 (High)

PROPORTION OF DETECTED **VIRUSES**

> 93.3% 6.7%

PROPORTION OF DETECTED

BACTERIA

73.4% 26.6%

PROPORTION OF DETECTED **FUNGI**

100%

AMR

mecA

CTX-M

CONFIDENCE **SCORE**

3.00 (High)

2.11 (Mid)

ASSOCIATED PATHOGEN

Staphylococcus aureus

Acinetobacter baumannii Enterobacter cloacae complex Escherichia coli

Klebsiella pneumoniae

ASSOCIATED RESISTANCE

Amoxicillin, Amoxicillin-Clavulanate, Cefazolin, Cefepime, Cefotaxime, Meropenem, Oxacillin

Amoxicillin, Cefazolin, Cefepime, Cefotaxime



SPECIMEN ID: SRR525047

REPORT DATE: 03 September 2020

INTERPRETIVE DATA

For Research Use Only. Not for use in diagnostic procedures.

The Respiratory Pathogen ID and AMR panel with Explify® analysis identifies 42 viruses, 187 bacteria, 53 fungi, and 1,218 antimicrobial resistance (AMR) markers based on target enriched next-generation sequencing (NGS) of pathogen transcriptome and genome sequences. Sequencing data are interpreted by the Explify software and potential pathogens that pass minimum Confidence Score thresholds are listed. Passing Confidence Scores range from 0 to 3 with higher values indicating greater confidence. Confidence Scores are categorized as High, Medium, and Low. If two or more microorganisms from a given class (e.g., bacteria) are identified, their relative abundance is calculated based on normalized sequencing read counts and listed as proportion (e.g., "Proportion of Detected Bacteria"). Associated Pathogen and Associated Resistance are listed for AMR Markers that pass a minimum Confidence Score threshold and are based on existing scientific knowledge. Associated Pathogen have been linked to resistance based on the identified AMR Marker. They may or may not have been identified in this specimen. See www.idbydna.com/respiratoryidamrpanel for additional information.

LIMITATIONS

Negative results do not rule out the presence of viruses, bacteria, fungi, and AMR markers. Due to complexities of next generation sequencing methodologies and sequence-based microbial identification, there may be a risk of false-positive and/or false-negative results. Contamination with microorganisms is possible during specimen collection, transport, and processing. The identification of cDNA or DNA sequences from a microorganism do not confirm that the identified microorganism is causing symptoms, is viable, or is infectious. Detection of genetic markers for antibiotic resistance does not always predict phenotypic resistance; lack of detection does not indicate susceptibility. Information provided by the Respiratory Pathogen ID and AMR panel with Explify® analysis is based on existing scientific knowledge and has been curated. However, scientific knowledge evolves and information about associated pathogen and associated resistance may not always be complete and/or correct. Results should be interpreted with caution. Other sources of data may be required for confirmation.