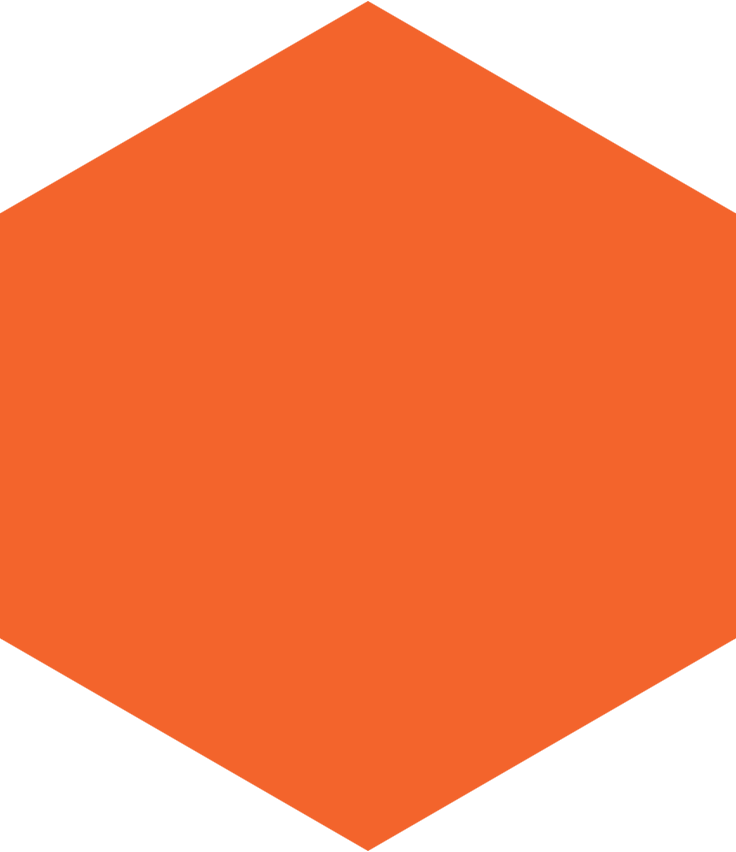


|  |
| --- |
| **metagenomic Next Generation Sequencing Report** |
| 六边形 1 |



**Basic Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name: | ww | Gender: | F | Age: | 1 |
| Sampling Day: | 2024-10-04 | Test Day: | 2024-10-05 | Tel: | 13234345678 |
| Requesting physician: | respiratory tract infections | Sample Type: | zs | Sample Status: | PUS |
| Requesting apartment: | Yellow | Requesting hospital: | Department of respiration | | |
| Clinical information (medical history, chief complaint, symptoms, diagnosis, medication, etc.) | | | | | |
| Symptoms: Xi'an No.1 hospital  Concerning pathogens: Xi'an  Pretreatment: Decreased appetite, headache | | | | | |
| Test items | | | | | |
| Nucleic acid（DNA+RNA） | | | | | |

**Summary of Test Results**

|  |
| --- |
| Bacteria：Streptococcus pneumoniae 175 reads |
| Eukaryota：Candida albicans 164 reads；Toxoplasma gondii 11 reads |
| Viruses：Human mastadenovirus C 2 reads |

**List of Detected Results**

**> list of detected bacteria**

| Species | Types | Reads | Coverage |
| --- | --- | --- | --- |
| 肺炎链球菌*Streptococcus pneumoniae* | G+ | 175 | 97.70% |

**> list of detected Mycobacterium complex species**

| Species | Types | Reads | Coverage |
| --- | --- | --- | --- |
| Undetected | | | |

**> list of detected fungi**

| Species | Types | Reads | Coverage |
| --- | --- | --- | --- |
| 白色念珠菌*Candida albicans* | fun | 164 |  |

**> list of detected viruses**

| Species | Types | Reads | Coverage |
| --- | --- | --- | --- |
| 人类哺乳动物腺病毒*Human mastadenovirus C* | vir | 2 |  |

**> list of detected parasites**

| Species | Types | Reads | Coverage |
| --- | --- | --- | --- |
| 弓形虫*Toxoplasma gondii* | par | 11 |  |

**> Suspected microbiome list**

| Species | Types | Reads |
| --- | --- | --- |
| 齿垢密螺旋体*Treponema denticola* | G- | 65 |
| 曲形弯曲菌*Campylobacter curvus* | G- | 11 |
| 牙龈卟啉单胞菌*Porphyromonas gingivalis* | G- | 16,296 |
| 具核梭杆菌*Fusobacterium nucleatum* | G- | 173 |
| 坏死梭杆菌*Fusobacterium necrophorum* | G- | 19 |
| 咽峡炎链球菌*Streptococcus anginosus* | G+ | 103 |
| 福赛斯坦纳菌*Tannerella forsythia* | G- | 40,373 |
| 中间普雷沃菌*Prevotella intermedia* | G- | 43 |
| 产黑素普雷沃菌*Prevotella melaninogenica* | G- | 36 |
| 微小微单胞菌*Parvimonas micra* | G+ | 63 |
| 纹带棒状杆菌*Corynebacterium striatum* | G+ | 20 |
| *Treponema vincentii* |  | 29 |

\* The pathogens in this list are microbial communities from the human skin, respiratory tract, intestines, reproductive tract, and the environment. The determination of colonization, contamination, or infection should be considered in conjunction with clinical symptoms and other relevant diagnostic methods.

**Definition of terms:**

# Number of Reads: The number of reads matching the pathogen. This number is related to the pathogen load in the sample, the amount of nucleic acid extracted, and the proportion of human reads. A higher number of reads indicates higher confidence in detecting the pathogen in the sample.

# Relative Abundance: The proportion of this microorganism among all detected microorganisms of the same type in the sample. The higher the abundance, the greater the proportion of this microorganism relative to other microorganisms of the same type.

# Coverage: The ratio of the detected nucleic acid sequences of this microorganism to the entire genomic sequence of the microorganism. Higher coverage indicates a higher proportion of the microorganism’s genome being detected.

**Sequencing Quality**

|  |  |  |
| --- | --- | --- |
| **Quality Control Parameters** | | **Sample Data** |
| Experimental Quality Control | Internal Control | Qualified |
| Nucleic Acid Extraction Concentration (ng/μL) | NA |
| Library Concentration | NA |
| Negative Control | Qualified |
| Host Removal Status | No |
| Data Quality Control | Total Number of Sequences | 16.034314 M |
| Non-Human Sequences | 5123008 |
| Q30 | 94.19% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tester: |  | Reviewer: |  | Report Date: | 2023/06/15 |

**Statement:** This report is only responsible for the submitted sample. The results are for the doctor’s reference only. Microorganisms below the detection limit cannot be guaranteed to be detected.