

## **Metagenomic Sequencing**

## 1. Sample Requirements

Sample Type	Amount(Qubit®)	Volume	Concentration	Purity(NanoDrop <sup>™</sup> )
Total DNA	≥ 200 ng	≥ 20 μL	≥ 10 ng/μL	OD 260/280=1.8~2.0, no degradation or RNA contamination

## 2. Sequencing Parameters

Platform	NovaSeq 6000
Read length	Paired-end 150 bp
Recommended sequencing depth	≥ 6G/12 G raw data
Data quality	Guaranteed ≥ 85% bases with Q30 or higher
*Turnaround time	Typical 12 wording days for 24 or fewer samples from project verification to data releasing

<sup>\*</sup>Turnaround time varies depending on the project volume.

## 3. Data Analysis Contents

Shotgun Metagenomic Sequencing Standard Analysis
Data quality control: filtering reads containing adapter or with low quality, filtering host genome sequences
Assembly
Species annotation
Gene prediction
Gene annotation (KEGG, eggNOG, CAZy, ARDB, CARD, PHI, MGEs databases)
Species/Gene/Function abundance statistics and cluster analysis
Comparative analysis (among samples)