

Microbiome WGS

Shotgun Metagenomic Sequencing kit

4bases Microbiome WGS is a RUO kit designed for high-resolution metagenomic profiling of complex microbial communities across clinical and environmental samples through a shot-gun protocol for Next Generation Sequencing (NGS).

Traditional diagnostic methods such as culture and PCR often fall short in capturing the complexity of microbial threats and microbiome-host interactions. 4bases offers a complete shotgun metagenomic solution designed for unbiased detection of bacteria, viruses, fungi, and parasites directly from clinical samples (e.g., blood, BAL, biopsies, fluids) or environmental without prior cultivation or target enrichment.

The **MICROBIOME WGS kit**, combines high taxo-nomic accuracy with a streamlined protocol requiring less than 2 hours of hands-on time—ensuring both performance and ease of use.

Applications include:

- Early identification of emerging infections
- Detection of polymicrobial and fastidious pathogens
- Microbiota-immune system interaction studies
- Antimicrobial resistance (AMR) gene profiling

With its powerful Whole Metagenome Sequencing approach, 4bases enables clinicians and researchers to move beyond traditional tools and uncover the full microbial landscape with clarity and confidence.



Looking to unlock deeper insights into microbial ecosystems? Contact our support team for full details and data examples.
support@4bases.ch

From DNA to Final data in less than 2 days with less than 3 hours hands-on time.



Using appropriate
extraction method
Quality check

DNA EXTRACTION

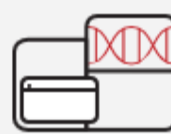


Enzymatic fragmentation
End-repair, dA tailing,
adapter ligation
Library amplification
Pool creation

LIBRARY PREPARATION



FINAL LIBRARY



NGS



TO FINAL DATA

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Specifications

Sample type	Purified microbial or total DNA extracted from complex biological or environmental matrices, including stool/fecal samples, swabs, tissues, blood, body fluids, soil, water, food-related samples, and surface/environmental specimens.
Input	Minimum of 30 ng DNA per sample
Variant called	SNPS, indels, CNVs
Instrument Type	Illumina, MGI, Oxford Nanopore Technologies, Ion Torrent, Element Biosciences, GeneMind
Data Analysis	One Codex
Automation version	Customizable

Cod. kit

Product	Cod.	Tests number
Microbiome WGS RUO	RC3270, RDC3270, RC3270Y	16
Microbiome WGS RUO	RC3270, RDC3270, RC3270Y	96

One Codex: Comprehensive output files for analysis and reporting



ONE CODEX is a software that allows the storage, management and analysis of genomic data deriving from **microbiological samples**.

- Targeted loci
- One Codex database
- Genome assembly
- Anti-Microbial Resistance panel

Data Analysis

Product	Cod.	Tests number	Distributed by
One Codex	AS03-RC3270-16	16	4bases
One Codex	AS03-RC3270-96	96	4bases

If you wish to learn more:



Contact us at: info@4bases.ch
4bases SA – www.4bases.ch

