Flyer_Microbiome_panel_rev4_08-06-2022_ENC

MICROBIOME panel

For the analysis of the hypervariable regions of the bacterial 16S rDNA gene



MICROBIOME panel

MICROBIOME Panel is a novel NGS Medical Device for the analysis of the hypervariable regions of the bacterial 16S rDNA gene.

MICROBIOME solution

MICROBIOME panel is a kit for the analysis and phylogenetic characterization of several microbial communities through a molecular protocol based on NGS technologies (Table 1).

The kit is validated for analysis of DNA extracted from fecal, pulmonary, oral, vaginal samples and from surface and soil samples.

MICROBIOME panel kit contains all reagents required for the preparation of a specific bidirectional amplicons library designed for NGS analysis using Illumina, Ion Torrent or Nanopore sequencers.

WORKFLOW

The MICROBIOME panel kit is part of a DNA-to-variant solution that offers streamlined content, easy-to-perform library preparation, push-button sequencing systems, and simplified data analysis. Library preparation follows a straightforward, PCR-based protocol that can be completed in as little as 5 hours, with < 1.5 hours hands-on time. Resulting libraries can be normalized, pooled, and then loaded into a flow cell for sequencing.

•	SPECIFICITY	> 99%
•	SENSITIVITY	> 99%

> 99%

COVERAGE (>30x)

	V1-V2	Vaginal microbiome
HUMAN microbiome	V3-V4	Intestinal Microbiome
	V5-V6	Lactose enzymes
SURFACES	V7- V9	Surface and soil microorganisms

Table 1. List of target regions in MICROBIOME panel

SAMPLE PER RUN

Instrument	Sample per run*
MiSeq Nano Kit v2 (500-cycles)	7
MiSeq Kit v2 (500-cycles)	27
MiSeq Kit v3 (600-cycles)	45
NextSeq 550 Mid-Output Kit	234
NextSeq 550High-Output Kit	720
lon 510™ Chip	5
Ion 318™ Chip/Ion 520™ Chip	12
Ion 530™ Chip	37
Ion PI™ Chip/Ion 540™ Chip	250

^{*} The maximum number of samples per cartridge/chip estimated assuming an average depth of 100.000x. The optimal number of samples must be empirically determined on local setups.

Ordering Information

Product	REF		
MICROBIOME panel	H1050-16 (16 test)		
MICROBIOME panel	H1050-48 (48 test)		
For Illumina instrument**			
Index Set series RUO - CE	3000		
For Ion Torrent instrument**			
Barcode series RUO - CE	6000		

^{**} For the complete list of available indexes and barcodes, refer to Flyer_Index-Barcode

