

# Microbiome Explorer Comprehensive

The comprehensive test that delivers insights about the microbiome's impact on systemic health combined with key GI health markers and pathogen screening.



## What is the Test

A clinical-grade microbiome test which provides a comprehensive assessment that includes:

- Microbiome Markers
- GI Health Markers
- Pathogen Screening

## When to Refer

- Gastrointestinal symptoms – constipation, bloating, gas, diarrhoea, abdominal pain
- Digestive function
- Gut inflammation
- Intestinal permeability
- Immunity
- Suspected gut infection

## What's Included

### 3 panels from a single sample

- Reports on over 40 scientifically validated biomarkers
- Identify which species are present and their relative abundance
- Understand the functions these species perform within the microbiome

## Technology Used

- Metagenomic next-generation sequencing (mNGS)
- Enzyme-Linked Immunosorbent Assay (ELISA)
- Real-time Polymerase Chain Reaction (RT-PCR)

### MICROBIOME PROFILE

#### 16 Microbiome Markers

Uncover how the microbiome impacts overall health using metagenomic mNGS technology.

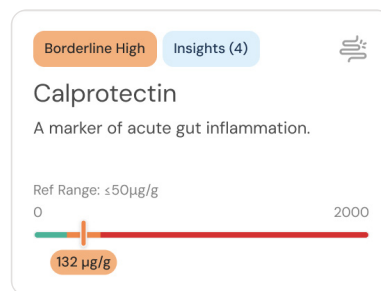
- Acetate producing microbes
- *B.fragilis* toxin producing microbes
- Branched-chain amino acids (BCAA) producing microbes
- Beta-glucuronidase producing microbes
- Butyrate producing microbes
- Hexa-acylated lipopolysaccharide (hexa-LPS) producing microbes
- Hydrogen sulphide producing microbes
- 3-indolepropionic acid (IPA) producing microbes
- Methane producing archaea
- Microbial diversity
- Microbial richness
- Mucin consuming microbes
- Oral species
- Oxalate consuming microbes
- Propionate producing microbes
- Trimethylamine (TMA) producing microbes

### GI HEALTH PANEL

#### 7 Diagnostic GI Markers

Get an assessment of gut function and environment using our ELISA technology.

- Faecal occult blood
- Calprotectin
- Lactoferrin
- Pancreatic elastase
- Secretory IgA
- Zonulin
- Faecal pH



### PATHOGEN PANEL

#### 18 Diagnostic Pathogen Markers

Identify pathogenic bacteria and protist parasites using RT-PCR technology.

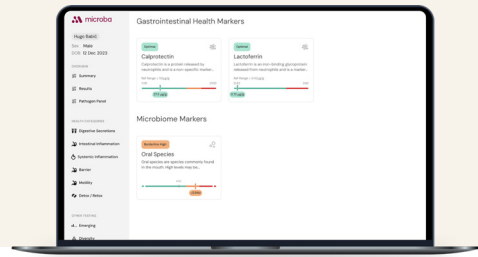
- *Aeromonas* spp.
- *Campylobacter* spp.
- *Clostridium difficile* toxin B
- *Cryptosporidium* spp.
- *Cyclospora cayetanensis*
- *Dientamoeba fragilis*
- *E. coli* O157
- *Entamoeba histolytica*
- Enteroaggregative *E. coli* (EAEC)
- Enteropathogenic *E. coli* (EPEC)
- Enterotoxigenic *E. coli* (ETEC)
- *Giardia lamblia*
- Hypervirulent *Clostridium difficile*
- *Salmonella* spp.
- *Shiga* Toxin
- *Shigella* spp./EIEC
- *Vibrio* spp.
- *Yersinia enterocolitica*

## Technical Specifications

Sample type	At home stool collection kit
Technology	Metagenomic mNGS + ELISA + PCR
Panels included	Microbiome Markers + GI Health Markers + Pathogen Screening
Turnaround time	14 days
Laboratory accreditation	Gold standard ISO15189
Evidence	1500+ peer reviewed studies to validate biomarkers, insights and expert summaries
Species	Sort by species, genus, family and phylum
High resolution microbe detection	Assesses microbial and metabolic capacity from all bacteria, archaea, fungi, protist and oral microbes detected in a sample

## Expert Summary

A summary of key findings and recommendations combining results from multiple test panels and markers – written by a team of microbiome specialists.



## Evidence-Graded Actionable Insights

Microba ClearCare Insights provides:

- 35+ diet insights
- 26+ prebiotic and probiotic insights
- 14+ supplementation insights
- 3+ lifestyle insights

All graded by scientific evidence. Personalised to patient results.

**Clinical Insight**

Consider GOS (galacto-oligosaccharides) supplementation to increase faecal secretory IgA.

Human C Show References

## 6 Health Categories

Groups biomarkers into key health domains to guide relevant care.

- Intestinal Motility
- Intestinal Inflammation
- Intestinal Barrier
- Systemic Inflammation
- Detox/Retox
- Digestive Secretions

## Interactive Species Explorer

Search and explore comprehensive data on all health and disease associated microbial species from a sample including species within the following genus:

- |                         |                      |
|-------------------------|----------------------|
| <i>Agathobacter</i>     | <i>Klebsiella</i>    |
| <i>Akkermansia</i>      | <i>Lactobacillus</i> |
| <i>Bifidobacterium</i>  | <i>Oxalobacter</i>   |
| <i>Bilophila</i>        | <i>Porphyromonas</i> |
| <i>Citrobacter</i>      | <i>Prevotella</i>    |
| <i>Desulfovibrio</i>    | <i>Rosburia</i>      |
| <i>Eggerthella</i>      | <i>Ruminococcus</i>  |
| <i>Enterobacter</i>     | <i>Streptococcus</i> |
| <i>Escherichia</i>      | plus more            |
| <i>Faecalibacterium</i> |                      |

Available to download as a CSV file

## Assess Microbial Diversity

### Microbial Diversity

Understand how diverse your patient's gut microbiome is using the Shannon Diversity Index.

### Microbial Richness

Get a count of all microbial species identified in a patient's sample.

#### Patient's Results

Optimal

Number of Species

191

Compared to Healthy Cohort

AVG

## 7 Emerging Markers

Explore emerging biomarkers that have historically been of clinical interest including:

- Ammonia (urease) producing microbes
- GABA consuming microbes
- GABA producing microbes
- Histamine producing microbes
- Human DNA
- Lactate producing microbes
- Vitamin K producing microbes

## Microba Healthy Reference Model

Each microbiome biomarker includes a comparison to a healthy reference range – making interpretation easy.



## Start Referring with Microba

Join the Microba practitioner network and start referring patients to the Microba Microbiome Explorer Range.

