

The GI-MAP (Microbial Assay Plus) is unique in the field of comprehensive stool testing. It relies exclusively on quantitative polymerase chain reaction (qPCR) technology to detect parasites, bacteria, fungi, and more, by targeting the specific DNA of the organisms tested. The GI-MAP™ (GI-Microbial Assay Plus) quantitatively assesses a patient's microbiome with attention to bacterial, parasitic, and viral pathogens that can cause disease, disrupt the normal microbial balance, and contribute to chronic GI illness.

#### BACTERIAL PATHOGENS

- Campylobacter
- C. difficile Toxin A
- C. difficile Toxin B
- Enterohemorrhagic E. coli
- E. coli O157
- Enteroinvasive E. coli/Shigella
- Enterotoxigenic E. coli LT/ST
- Shiga-like Toxin E. coli stx1
- Shiga-like Toxin E. coli stx2
- Salmonella
- Vibrio cholerae
- Yersinia enterocolitica

#### PARASITIC PATHOGENS

- Cryptosporidium
- Entamoeba histolytica
- Giardia

#### VIRAL PATHOGENS

- Adenovirus 40/41
- Norovirus GI
- Norovirus GII

#### H. pylori

- H. pylori
  - o Virulence Factor, babA
  - o Virulence Factor, cabA
  - o Virulence Factor, cabPAI
  - o Virulence Factor, dupA
  - o Virulence Factor, iceA

- o Virulence Factor, *opa*
- o Virulence Factor, *vacA*

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## NORMAL/COMMENSAL BACTERIA

### COMMENSAL BACTERIA

- *Akkermansia muciniphila*
- *Bacteroides fragilis*
- *Bifidobacterium* spp.
- Clostridia (class)
- *Enterobacter* spp.
- *Enterococcus* spp.
- *Escherichia* spp.
- *Faecalibacterium prausnitzii*
- *Lactobacillus* spp.

### BACTERIAL PHYLA

- Bacteroidetes
- Firmicutes
- Firmicutes/Bacteroidetes Ratio

### ADDITIONAL DYSBIOTIC/OVERGROWTH BACTERIA

- *Enterococcus faecalis*
- *Enterococcus faecium*
- Methanobacteriaceae (family)
- *Morganella morganii*
- *Pseudomonas* spp.
- *Pseudomonas aeruginosa*
- *Staphylococcus* spp.
- *Staphylococcus aureus*
- *Streptococcus* spp.

### POTENTIAL AUTOIMMUNE TRIGGERS

- *Citrobacter* spp.
- *Citrobacter freundii*
- *Fusobacterium* spp.
- *Klebsiella* spp.
- *Klebsiella pneumoniae*
- *Mycobacterium avium*
- *Prevotella copri*
- *Proteus* spp.
- *Proteus mirabilis*

## FUNGI/YEAST

- *Candida albicans*
- *Candida* spp.
- *Geotrichum* spp.
- *Microsporidia* spp.
- *Rhodoturula* spp.

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## VIRUSES

### OPPORTUNISTIC VIRUSES

- CMV- Cytomegalovirus
- EBV- Epstein Bar Virus

### PROTOZOA

- *Blastocystis hominis*
- *Chilomastix mesnelli*
- *Cyclospora cayetanensis*
- *Dientamoeba fragilis*
- *Endolimax nana*
- *Entamoeba coli*
- *Pentatrichomonas hominis*

### WORMS

- *Ancylostoma duodenale*
- *Ascaris lumbricoides*
- *Necator americanis*
- *Trichuris trichiura*
- *Taenia solium/saginada*

### DIGESTION

- Elastase-1
- Steatocrit

### IMMUNE RESPONSE

- SIgA
- Anti-gliadin SIgA

### INFLAMMATION

- Calprotectin

### GI MARKERS

- $\beta$ -Glucuronidase
  - Occult Blood - FIT
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ADD-ON TESTS

- Zonulin

**Sample Report**