



GI Microbial Assay Plus

DNA qPCR STOOL ANALYSIS

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.

Diagnostic Solutions Laboratory utilizes proven qPCR technology with high sensitivity and specificity to provide quantitative, accurate, and reliable results.

FOR INDIVIDUALS WITH SYMPTOMS OF:

- Chronic and Acute Gastroenteritis
- IBD – Inflammatory Bowel Disease
- IBS – Irritable Bowel Syndrome
- Autoimmune Disease
- SIBO
- Suspected *H. pylori* Infection
- Fungal or Yeast Infections
- Bacterial & Parasitic Infections
- Intestinal Permeability
- Viral Pathogens

THE GI-MAP® INCLUDES THESE ANALYTES:

- Bacterial Pathogens
- Viral Pathogens
- Parasitic Pathogens
- Parasitic Protozoa
- Parasitic Worms
- Normal Bacterial Flora
- Opportunistic Bacteria
- *H. pylori* with Virulence Factors
- *H. pylori* Resistance Genes
- Fungi/Yeast
- Digestion
- Immune Response
- Inflammation
- Add-on option: Zonulin (Leaky Gut marker)



RESEARCH. TECHNOLOGY. RESULTS

It's simply the better test.

Microscopy and culture-based tests are familiar, but they have limitations with sensitivity, specificity, and identifying anaerobic organisms. That is why almost no peer-reviewed GI microbial research studies have used microscopy and culture-based testing methods in over 20 years.

It is estimated that there are over 200 million cases of gastrointestinal disease each year in the United States. Acute or chronic diarrhea caused by bacterial, viral, or parasitic pathogens present in the GI tract, account for a significant proportion of the cases. Many of these cases often go undiagnosed and untreated.

METHODOLOGY

- qPCR amplifies gene targets and can generate thousands to millions of copies of a single target DNA sequence.
- This increases the sensitivity and specificity of the test greatly.
- The automated nature of this method minimizes the chance for human error.

TEST ORDERING OPTIONS

- GI-MAP® (GI Microbial Assay Plus)
- Add on Test: Zonulin (Gut Permeability)

SPECIMEN REQUIREMENTS

- Single stool collection shipped ambient.
- Test collection kits include specimen collection instructions, test request form, collection tray, Carey Blair transport medium, specimen bag, gloves, absorbent material, and a pre-paid Clinical Pak mailer.

CPT CODE(S)

GI-MAP

87482 x1 - *Candida* DNA quant

87799 x1 - Detect agent nos DNA quant; *Giardia*

87799 x1 - Detect agent nos DNA quant; *E. histolytica*

87799 x1 - Detect agent nos DNA quant; *H. pylori*

87798 x1 - Detect agent nos amp probe; *Tenia solium*

87798 x1 - Detect agent nos amp probe; *N. americanus*

87798 x1 - Detect agent nos amp probe; *A. lumbicoides*

82274 x1 - Occult Blood Fecal Immunochemical Testing (FIT)

83993 x1 - Calprotectin, quantitative ELISA

82656 x1 - Pancreatic Elastase, ELISA

83516 x1 - Fecal Secretory IgA, ELISA

83516 x1 - IgA ELISA, Gliadin, ELISA

83520 x1 - Immuno assay, quant. Eosinophil Derived Neurotoxin

Zonulin (Add-on)

83520 X1 - Immuno assay, quant. nos-Zonulin



1. Hartman KG, Bortner JD, Falk GW, Ginsberg GG, Jhala N, Yu J, Martin MG, Rustgi AK, Lynch JP. Modeling human gastrointestinal inflammatory diseases using micro physiological culture systems. *Exp Bio Med* (2014); 239:1108-1123
2. Platts-Mills JA, Liu J, Houpt ER. New concepts in diagnostics for infectious diarrhea *Nature* (2013); 6(5):876-885