

Gut Health Testing

Advanced Diagnostics for Gut Health and Treating Complex Diseases



Insights

from our Gut Health line of testing may help reveal **hidden causes** of **digestive discomfort** so you can **personalize patient recommendations**.

GENOVA
DIAGNOSTICS®


Why Choose Gut Health Testing?

A **comprehensive stool panel provides an ideal starting place** for assessing gastrointestinal complaints. It offers the advantage of assessing multiple functional areas including digestive function, intestinal inflammation, and the intestinal microbiome, which may contribute to symptoms.

STOOL



GI Effects® Stool Profiles offer clinicians extensive insight into overall gut health while providing our most in-depth look into the microbiome. The GI Effects Comprehensive Stool Profile encompasses all of the elements of Genova stool profiles, assessing key functional areas of gut health including digestion and absorption, inflammation, bacteria and bacterial metabolism, yeast, and parasites. The GI Effects line includes qPCR technology to measure 24 commensal bacteria and 6 protozoan parasites. 3-day or 1-day options available.

- **GI Effects Comprehensive Stool Profile #2200**
- GI Effects Microbial Ecology Profile #2205
- GI Effects Gut Pathogen Profile # 2207
- GI Effects Fundamentals Profile # 2209
- GI Effects Comprehensive Profile with Microbiomix™ # 2210

Other Available Stool Profiles include:

- Microbiology Analysis #2300
- Yeast Culture with KOH Preparation #2301
- Parasitology #2302
- Comprehensive Parasitology Profile #2304
- Microbiomix #2220
- Calprotectin #2308
- Gut Immunology #2313
- H. pylori Stool Antigen HpSA #2314
- Pancreatic Elastase #2315

BREATH



The **Small Intestinal Bacterial Overgrowth Profile (SIBO)** assesses hydrogen and methane gases following ingestion of a lactulose solution. The SIBO profile is a useful tool for patients with bloating, diarrhea, constipation, and gas. Available as a 2 or 3-hour collection.

- SIBO (Small Intestinal Bacterial Overgrowth) - 3 Hour # 2337
- SIBO (Small Intestinal Bacterial Overgrowth) - 2 Hour # 2306

URINE



The **Intestinal Permeability Assessment** provides an evaluation of small intestinal absorption and barrier function using lactulose and mannitol.

- Intestinal Permeability Assessment #2305

BIOMARKERS REPORTED	GI Effects Comprehensive #2200*	GI Effects Microbial #2205*	GI Effects Gut Pathogen #2207*	GI Effects Fundamentals #2209
*Not Available in New York - Biomarkers with product numbers are available as stand-alone tests				
Digestion/Absorption				
Pancreatic Elastase 1	.			.
Products of Protein Breakdown (Total) (Valerate/Isobutyrate/Isovalerate)	.			.
Fecal Fat (Total)	.			.
Long Chain Fatty Acids	.			.
Triglycerides	.			.
Phospholipids	.			.
Cholesterol	.			.
Inflammation and Immunology				
Calprotectin	.			.
Eosinophil Protein X (EPX)	.			.
Fecal sIgA*	.			+
Metabolic				
SCFA (Total) (Acetate, n-Butyrate, Propionate)	.			.
n-Butyrate Concentration	.			.
SCFA Distribution	.			.
n-Butyrate %	.			.
Acetate%	.			.
Propionate%	.			.
Beta-glucuronidase*	.			.
Gastrointestinal Microbiome				
Commensal Bacteria (qPCR)*				
Bacteroidetes Phylum				
<i>Bacteroides uniformis</i>	.	.		
<i>Phocaeicola vulgatus</i>	.	.		
<i>Barnesiella</i> spp.	.	.		
<i>Odoribacter</i> spp.	.	.		
<i>Prevotella</i> spp.	.	.		
Firmicutes Phylum				
<i>Anaerotruncus colihominis/massiliensis</i>	.	.		
<i>Butyrivibrio crossotus</i>	.	.		
<i>Clostridium</i> spp.	.	.		
<i>Coprococcus eutactus</i>	.	.		
<i>Faecalibacterium prausnitzii</i>	.	.		
<i>Lactobacillus</i> spp.	.	.		
<i>Pseudoflavonifractor</i> spp.	.	.		
<i>Roseburia</i> spp.	.	.		

BIOMARKERS REPORTED	GI Effects Comprehensive #2200*	GI Effects Microbial #2205*	GI Effects Gut Pathogen #2207*	GI Effects Fundamentals #2209
Commensal Bacteria (PCR)*				
<i>Ruminococcus bromii</i>	.	.		
<i>Veillonella</i> spp.	.	.		
Actinobacteria Phylum				
<i>Bifidobacterium</i> spp.	.	.		
<i>Bifidobacterium longum</i>	.	.		
<i>Collinsella aerofaciens</i>	.	.		
Proteobacteria Phylum				
<i>Desulfovibrio piger</i>	.	.		
<i>Escherichia coli</i>	.	.		
<i>Oxalobacter formigenes</i>	.	.		
Euryarchaeota Phylum				
<i>Methanobrevibacter smithii</i>	.	.		
Fusobacteria Phylum				
<i>Fusobacterium</i> spp.	.	.		
Verrucomicrobia Phylum				
<i>Akkermansia muciniphila</i>	.	.		
Bacteriology and Mycology Culture				
<i>Lactobacillus</i> spp.
<i>Escherichia coli</i>
<i>Bifidobacterium</i> spp.
Additional Bacteria: <i>Citrobacter</i> sp., <i>Klebsiella pneumoniae</i> , <i>Proteus mirabilis</i> , <i>Salmonella</i> sp., <i>Enterococcus</i> sp., etc.
Mycology (Yeast/Fungi): <i>Candida albicans</i> , <i>Candida krusei</i> , <i>Candida parapsilosis</i> , <i>Rhodotorula</i> sp., <i>Saccharomyces</i> , etc.
Bacterial Sensitivities (pharmaceutical & botanical)
Mycology Sensitivities (pharmaceutical & botanical)
Parasitology				
Microscopic Exam Results (a comprehensive evaluation for ova and parasites)	.	.	.	+
Nematodes - roundworms				
<i>Acylostoma duodenale</i> (Hookworm)	.	.	.	+
<i>Ascaris lumbricoides</i>	.	.	.	+
<i>Capillaria philippinensis</i>	.	.	.	+
<i>Enterobius vermicularis</i>	.	.	.	+
<i>Necator americanus</i> (Hookworm)	.	.	.	+
<i>Strongyloides stercoralis</i>	.	.	.	+
<i>Trichuris trichiura</i>	.	.	.	+
Cestodes-tapeworms				
<i>Diphyllobothrium latum</i>	.	.	.	+
<i>Dipylidium caninum</i>	.	.	.	+
<i>Hymenolepis diminuta</i>	.	.	.	+
<i>Hymenolepis nana</i>	.	.	.	+
<i>Taenia</i> spp.	.	.	.	+
Trematodes-flukes				
<i>Clonorchis/Opisthorchis</i> spp.	.	.	.	+
<i>Fasciola</i> spp./ <i>Fasciolopsis buski</i> ova	.	.	.	+
<i>Heterophyes/Metagonimus</i> ova	.	.	.	+
<i>Paragonimus</i> spp.	.	.	.	+
<i>Schistosoma</i> spp.	.	.	.	+

BIOMARKERS REPORTED	GI Effects Comprehensive #2200*	GI Effects Microbial #2205*	GI Effects Gut Pathogen #2207*	GI Effects Fundamentals #2209
Parasitology				
Protozoa				
<i>Balantidium coli</i>	.	.	.	+
<i>Blastocystis</i> spp.	.	.	.	+
<i>Chilomastix mesnili</i>	.	.	.	+
<i>Cryptosporidium</i> spp.	.	.	.	+
<i>Cyclospora cayetanensis</i>	.	.	.	+
<i>Dientamoeba fragilis</i>	.	.	.	+
<i>Entamoeba coli</i>	.	.	.	+
<i>Entamoeba dispar</i>	.	.	.	+
<i>Entamoeba hartmanni</i>	.	.	.	+
<i>Entamoeba histolytica</i>	.	.	.	+
<i>Entamoeba polecki</i>	.	.	.	+
<i>Endolimax nana</i>	.	.	.	+
<i>Giardia</i>	.	.	.	+
<i>Iodamoeba butschlii</i>	.	.	.	+
<i>Isospora</i> spp.	.	.	.	+
<i>Trichomonads</i> (e.g. <i>Pentatrichomonas</i>)	.	.	.	+
PCR Parasitology - Protozoa*				
<i>Blastocystis</i> spp.	.	.	.	+
<i>Cryptosporidium</i> spp.	.	.	.	+
<i>Cyclospora cayetanensis</i>	.	.	.	+
<i>Dientamoeba fragilis</i>	.	.	.	+
<i>Entamoeba histolytica</i>	.	.	.	+
<i>Giardia</i>	.	.	.	+
Additional Findings				
Fecal Occult Blood
Color
Consistency
Add-on Testing				
Fecal Lactoferrin (#2311)	+	+	.	.
<i>Campylobacter</i>	+	+	+	+
<i>Clostridium difficile</i> EIA	+	+	+	+
<i>Helicobacter pylori</i> Stool Antigen EIA*	+	+	+	+
KOH Preparation for Yeast	+	+	.	+
Macroscopic/Direct Examination for Parasites	+	+	.	+
Shiga-like Toxin <i>Escherichia coli</i> EIA	+	+	+	+
Zonulin Family Peptide, Stool*	+	+	.	+
Microbiomix™**	+	.	.	.

User-Friendly Lab Reports

Our Gut Health Reports Feature:

- Actionable results related to flagged biomarkers and evaluations that allow you to target personalized treatment plans
- Color-metric reports that signal key areas of concern
- Easy-to-use "Results Overview" page that graphically depicts overarching results related to maldigestion, inflammation, dysbiosis, metabolic imbalance, and infection

Patient: SAMPLE PATIENT ID: Page 5

Parasitology**

Microscopic O&P Results
Microscopic O&P is capable of detecting all described gastrointestinal parasites. The organisms listed in the box represent those commonly found in microscopic stool analysis. Should an organism be detected that is not included in the list below, it will be reported in the Additional Results section. For an extensive reference of all potentially detectable organisms, please visit www.gdx.net/product/gi-effects-comprehensive-stool-test

Genus/species	Result
Nematodes - roundworms	
<i>Ancylostoma/Necator</i> (Hookworm)	Not Detected
<i>Ascaris lumbricoides</i>	Not Detected
<i>Capillaria philippinensis</i>	Not Detected
<i>Enterobius vermicularis</i>	Not Detected
<i>Strongyloides stercoralis</i>	Not Detected
<i>Trichuris trichiura</i>	Not Detected
Cestodes - tapeworms	
<i>Diphyllobothrium latum</i>	Not Detected
<i>Dipylidium caninum</i>	Not Detected
<i>Hymenolepis diminuta</i>	Not Detected
<i>Hymenolepis nana</i>	Not Detected
<i>Taenia</i> spp.	Not Detected
Trematodes - flukes	
<i>Clonorchis/Opisthorchis</i> spp.	Not Detected
<i>Fasciola</i> spp. / <i>Fasciolopsis buski</i>	Not Detected
<i>Heterophyes/Heterogonimus</i>	Not Detected
<i>Paragonimus</i> spp.	Not Detected
<i>Schistosoma</i> spp.	Not Detected
Protozoa	

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Gastrointestinal Microbiome (PCR)

Methodology: DNA by qPCR

Commensal Bacteria (PCR)	Result CFU/g stool	QUANTILE DISTRIBUTION					Reference Range CFU/g stool
		1st	2nd	3rd	4th	5th	
Bacteroidetes Phylum							
<i>Bacteroides uniformis</i>	3.5E8	[Progressive bar chart]					<=9.5E8
<i>Phocaeicola vulgatus</i>	2.8E8	[Progressive bar chart]					<=8.3E8
<i>Barnesiella</i> spp.	3.6E7	[Progressive bar chart]					3.0E8-2.9E8
<i>Oribacter</i> spp.	<DL	[Progressive bar chart]					<=9.5E7
<i>Prevotella</i> spp.	1.2E9	[Progressive bar chart]					6.6E7-3.8E9
Firmicutes Phylum							
<i>Anaerotruncus colihominis/massiliensis</i>	1.6E7	[Progressive bar chart]					<=2.0E7
<i>Butyrivibrio crossotus</i>	<DL	[Progressive bar chart]					<=3.3E7
<i>Clostridium</i> spp.	<DL	[Progressive bar chart]					<=1.5E7
<i>Coprococcus eutactus</i>	<DL	[Progressive bar chart]					<=1.2E8
<i>Faecalibacterium prausnitzii</i>	2.4E8	[Progressive bar chart]					1.1E8-1.1E9
<i>Lactobacillus</i> spp.	5.6E3	[Progressive bar chart]					<=1.6E8
<i>Pseudoflavonifactor</i> spp.	1.4E6	[Progressive bar chart]					1.3E4-2.9E7

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Patient: SAMPLE PATIENT
DOB: _____
Sex: _____
MRN: _____

2200 GI Effects™ Comprehensive Profile - Stool

Powered by Genova AI

Results Overview

Functional Imbalance Scores

Key: <2 : Low Need for Support | 2-3 : Optional Need for Support | 4-6 : Moderate Need for Support | 7-10 : High Need for Support

Need for Digestive Support	Need for Inflammation Modulation	Need for Microbiome Support	Need for Prebiotic Support	Need for Antimicrobial Support
5	10	10	0	10

Biomarkers

- Pancreatic Elastase
- Products of Protein Breakdown
- Fecal Fats

Inflammation

- Calprotectin
- Eosinophil Protein X
- Secretory IgA
- Occult Blood

Dysbiosis

- IAD/Methane Score
- PP Bacteria/Yeast
- Reference Variance
- Total Abundance

Metabolic Imbalance

- Total SCFA's
- n-Butyrate Conc.
- SCFA (%)
- Beta-glucuronidase

Infection

- Parasitic Infection
- PP Bacteria/Yeast
- Total Abundance
- Pathogenic Bacteria

Therapeutic Support Options

<ul style="list-style-type: none"> Digestive Enzymes Bile Salts Apple Cider Vinegar Mindful Eating Habits Digestive Bitters 	<ul style="list-style-type: none"> Elimination Diet/ Food Sensitivity Testing Mucosa Support: Slippery Elm, Althea, Aloe, DGL, etc. Zinc Carnosine L-Glutamine Quercetin Turmeric Omega-3's GI Referral (if Calprotectin Elevated) 	<ul style="list-style-type: none"> Pre-/Probiotics Increase Dietary Fiber Intake Consider SIBO Testing Increase Resistant Starches Increase Fermented Foods Meal Timing 	<ul style="list-style-type: none"> Pre-/Probiotics Increase Dietary Fiber Intake Increase Resistant Starches Increase Fermented Foods Calcium D-Glucarate (for high beta-glucuronidase) 	<ul style="list-style-type: none"> Antibiotics (if warranted) Antimicrobial Herbal Therapy Antiparasitic Herbal Therapy (if warranted) Saccharomyces boulardii
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