



Comprehensive Stool Analysis

Key to Maintaining a Healthy Digestive System

The Importance of the Comprehensive Stool Analysis

Many chronic disorders result from digestive problems and inadequate nutrient absorption. Even with a very complete and balanced diet, nutrients have to be properly digested to transport vitamins to different parts of the body. Proper gastrointestinal functioning also ensures elimination of toxic molecules, microbes and undigested food particles from the body, which helps prevent infections, toxic reactions, allergies, and other health problems.

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The role of abnormal intestinal microorganisms in gastrointestinal disorders is widely known. However, research also shows the relationship between the gastrointestinal and other systems in the body, such as the neurological, hepatic, and immune systems. For example, excessive yeast produces toxic metabolites, which can pass through the blood-brain barrier and alter neurological functioning, causing “brain fog,” behavior problems, and learning difficulties. Exposure to certain pathogens can cause the formation of antibodies that can interfere with the brain in predisposed individuals, causing problems with motor function. Excess of toxic by-products of certain bacteria can interfere with neurotransmitters and cause fatigue. Beneficial bacteria, on the other hand, helps with vitamin absorption and infection prevention.

Recommended for the Following Conditions

- AD(H)D
- Anxiety
- Arthritis, Articular, or Muscular Pain
- Autism Spectrum Disorders
- Behavioral Disorders
- Chronic Fatigue & Fibromyalgia
- Depression
- Diarrhea, Constipation, Abdominal Distension
- Food Allergies
- Inflammatory Bowel Disease
- Irritable Bowel Syndrome
- Leaky Gut Syndrome
- OCD
- Skin Conditions & Acne
- Tic Disorder / Tourette’s Syndrome
- Vitamin or Mineral Deficiencies
- Weight Changes
- Yeast Infections

About the Test

The Comprehensive Stool Analysis detects the presence of pathogenic yeast, parasites, and bacteria, which could be contributing to chronic illness and neurological dysfunction. It provides information about prescription and natural products that may be effective against specific microorganism strains detected in the sample. The test also evaluates beneficial bacteria levels, intestinal immune function, overall intestinal health (presence of occult blood, short chain fatty acids analysis, pH, mucus, and other criteria), and markers for inflammation.

Comprehensive Stool Evaluation Will Give You Specific Information About The Following Digestive Criteria

- Digestion of nutrients (chymotrypsin, triglycerides, muscle fibers, vegetable fibers)
- Absorption of nutrients (cholesterol, carbohydrates, steatocrit %)
- Elimination efficiency of undigested food residues and toxins
- Levels of healthy bacterial flora versus potentially pathogenic bacteria species, yeast, and parasites
- Culture and sensitivities of pathogenic yeast and bacteria
- Infectious pathogens (EIA evaluation for *Campylobacter*, *Enterohemorrhagic E.coli* cytotoxin, *Giardia lamblia*, and *Cryptosporidium*)
- Indices and markers of intestinal immune function (fecal sIgA)
- Indices and markers of inflammation (lysozyme and lactoferrin levels)
- Indices and markers of intestinal physiology and of intestinal health (presence of RBC, WBC, mucus, occult blood, fecal pH, and short chain fatty acids analysis)

Sample Report

Comprehensive Stool Analysis + Parasitology

BACTERIOLOGY CULTURE		
Expected/Beneficial flora	Commensal (Imbalanced) flora	Dysbiotic flora
NG <i>Bacteroides fragilis</i> group NG <i>Bifidobacterium</i> spp. 4+ <i>Escherichia coli</i> 1+ <i>Lactobacillus</i> spp. 4+ <i>Enterococcus</i> spp. 3+ <i>Clostridium</i> spp.		4+ <i>Citrobacter farmeri</i> 3+ <i>Citrobacter freundii</i> complex 4+ <i>Klebsiella pneumoniae</i>
NG = No Growth		
BACTERIA INFORMATION		
Expected / Beneficial bacteria make up a significant portion of the total microflora in a healthy & balanced GI tract. These beneficial bacteria have many health-protecting effects in the GI tract including manufacturing vitamins, fermenting fibers, digesting proteins and carbohydrates, and propagating anti-tumor and anti-inflammatory factors. Clostridia are prevalent flora in a healthy intestine. Clostridium spp. should be considered in the context of balance with other expected/beneficial flora. Absence of clostridia or over abundance relative to other expected/beneficial flora indicates bacterial imbalance. If <i>C. difficile</i> associated disease is suspected, consult the <i>Clostridium difficile</i> toxin A/B assay for the most precise diagnosis.		

GI Pathogen Profile, Multiplex PCR; stool

Virus	Result	Reference Interval
Adenovirus F40/41	No call-inhibited	Negative
Norovirus GI/GII	No call-inhibited	Negative
Rotavirus A	No call-inhibited	Negative
Pathogenic Bacteria	Result	Reference Interval
<i>Campylobacter</i> (<i>C. jejuni</i> , <i>C. coli</i> and <i>C. lari</i>)	No call-inhibited	Negative
<i>Clostridioides difficile</i> (Toxin A/B)	No call-inhibited	Negative
<i>Escherichia coli</i> O157	No call-inhibited	Negative
Enterotoxigenic <i>Escherichia coli</i> (EPEC) H/st	No call-inhibited	Negative
<i>Salmonella</i> spp.	No call-inhibited	Negative
Shiga-like toxin-producing <i>Escherichia coli</i> (STEC) stx1/stx2	No call-inhibited	Negative
<i>Shigella</i> (<i>S. boydii</i> , <i>S. sonnei</i> , <i>S. flexneri</i> & <i>S. dysenteriae</i>)	No call-inhibited	Negative
<i>Vibrio cholerae</i>	No call-inhibited	Negative

Parasitology; Microscopy

Protozoa	Result
<i>Balantidium coli</i>	Not Detected
<i>Blastocystis</i> spp.	Not Detected
<i>Chilomastix mesnili</i>	Not Detected
<i>Dientamoeba fragilis</i>	Not Detected
<i>Endolimax nana</i>	Not Detected
<i>Entamoeba coli</i>	Not Detected
<i>Entamoeba hartmanni</i>	Not Detected
<i>Entamoeba histolytica/Entamoeba dispar</i>	Not Detected
<i>Entamoeba polecki</i>	Not Detected
<i>Enteromonas hominis</i>	Not Detected
<i>Giardia duodenalis</i>	Not Detected
<i>Iodamoeba bütschlii</i>	Not Detected
<i>Isospora belli</i>	Not Detected

Parasitology; Microscopy

Trematodes - Flukes	Result	Reference Interval
<i>Clonorchis sinensis</i>	Not Detected	None - Rare
<i>Fasciola hepatica/Fasciolopsis buski</i>	Not Detected	None - Rare
<i>Heterophyes heterophyes</i>	Not Detected	None - Rare
<i>Paragonimus westermani</i>	Not Detected	None - Rare
Other Markers	Result	Reference Interval
Yeast	Rare	None - Rare
RBC	Not Detected	None - Rare
WBC	Not Detected	None - Rare
Muscle fibers	Not Detected	None - Rare
Vegetable fibers	Rare	None - Few



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