

The Comprehensive Digestive Stool Analysis 2.0 (CDSA 2.0) is the most advanced non-invasive evaluation of specific gastrointestinal imbalances. In addition to identifying general dysfunction, this assay provides direct measures to pinpoint the diagnosis and treatment of patients with many digestive conditions such as Irritable Bowel Syndrome (IBS) and Inflammatory Bowel Disease (IBD).

Digestive complaints are among the most common reasons that individuals seek medical care. Recent evidence now confirms that GI abnormalities are associated with many conditions outside the GI tract.

Extra-intestinal Specific GI General GI Indications: **Dysfunction:** Indications: Indigestion Osteoporosis Post Inflammatory IBS Constipation **Diabetes** Crohns Disease or Ulcerative Colitis (IBD) Diarrhea Arthritis Family history of IBD Gas and Bloating Autoimmune disease Family history of Gastrointestinal cancers Pancreatic Insufficiency Recent use of antibiotics Fibromyalgia Chronic Fatigue GI infection/Dysbiosis Gallstones **Abdominal Pain**

Digestion/Absorption Markers:

(Pancreatic Elastase, Putrefactive SCFAs, n-Butyrate)

- Direct measure of Pancreatic Digestive Enzyme output without interference from digestive supplements, changes in stool transit time or marker variability. Low levels of digestive enzyme output are associated with intestinal and Extra-intestinal conditions.

Gut Immunology Markers:

(Calprotectin, Eosinophil Protein X)

- This quantitative analysis identifies mild, moderate or severe inflammation within the GI tract. Elevations of these markers are associated with infection (bacterial, viral, & parasitic), food allergy, NSAID enteropathy, IBD and neoplasia.
- GI inflammation is associated with Intestinal and Extra-intestinal conditions.

Metabolic Markers:

(Short Chain Fatty Acids, pH, Beta-glucuronidase, Bile Acids)

- Abnormal levels of Short Chain Fatty Acids may indicate alterations in gut flora, insufficient dietary fiber, altered transit time and small bowel bacteria overgrowth.
- The chemistry markers identify imbalances that are associated with increased toxic burden within the colon, increasing long-term risk for colon and breast cancers.

Microbiology Markers:

(Bacteriology, Mycology)

- Quantitative measures of the beneficial flora Lactobacillus and Bifidobacterium
- Quantitative measures of additional flora, including strict pathogenic bacteria and potentially pathogenic and bacteria and yeast.
- An imbalance in GI flora is associated with Intestinal and Extra-intestinal conditions.

Parasitology:

(EIA and microscopic evaluation)

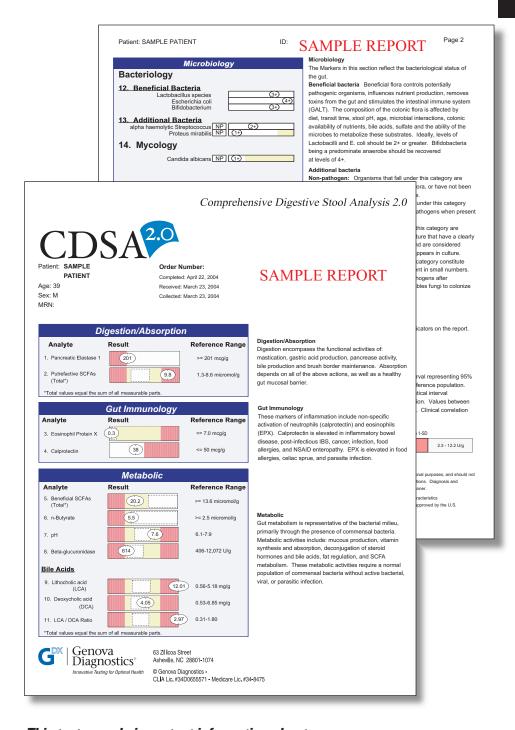
- With the highest documented recovery rates (22% positivity rate), this Parasitology exam quantifies all ova and parasites identified.
- Includes microscopic evaluation for yeast and blood cells.

•Analytes:

Pancreatic Elastase 1. **Putrefactive SCFAs**, **Short Chain Fatty Acids,** n-Butyrate, Calprotectin, Eosinophil Protein X. pH, Beta-glucuronidase, Bile Acids, Bacteriology, Mycology, EIA, microscopic evaluation

- Specimen Requirements: 5cc stool in each vial-3 SAF, 2 Cary Blair, 1 Formalin; 40ml stool in yellow-top cup; 20 ml stool in clean vial. May be random stool or purge.
- Before Taking this Test:
 - Avoid antibiotics, antifungals. laxatives, and anti-diarrheals (for 3 days)
 - Avoid use of non-steroidal anti-inflammatories (for 2 days)
 - See instructions inside test kit for more details





For test kits, clinical support, or more information contact: Client Services Genova Diagnostics 63 Zillicoa St. Asheville, NC 28801-1074 800-522-4762 Fax: 828-252-9303 www.GDX.net/cs

More detailed publications with references are also available:

■ www.GDX.net

This test reveals important information about:

- Calprotectin as an important marker of gastrointestinal inflammation. It can help to distinguish IBD & IBS, as well as other inflammatory conditions.
- Pancreatic Elastase to distinguish maldigestion from pancreatic versus gastric sources.
- Decreased exocrine pancreatic function is linked to gallstones, diabetes, osteoporosis, and autoimmune diseases.
- Gastrointestinal tract inflammation occurring in response to food allergy, protein-sensitive enteropathy, helminthic infection, IBD, allergic colitis, or neoplasm.
- Bile Acids play an important role in fat emulsion and fat absorption. High levels of some bile acids are associated with increased toxin buildup, increased risk of gallstones, and gastro-intestinal neoplasms.