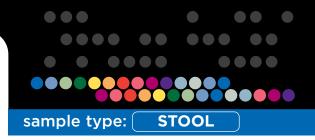


Comprehensive Digestive Stool Analysis



The **Comprehensive Digestive Stool Analysis (CDSA)** is Genova's original non-invasive evaluation of gastrointestinal function. This assay helps pinpoint imbalances, provides clues about current symptoms, and warns of potential problems should imbalances progress.

Digestive complaints are among the most common reasons that individuals seek medical care.

GI Indications for Testing:

- Indigestion
- InfectionDysbiosis
- ConstipationDiarrhoea

Gas and Bloating

- Abdominal pain
 - Irritable Bowel Syndrome (IBS)

Recent evidence confirms that GI abnormalities may be associated with many conditions **outside of the GI tract.**

Extra-intestinal Indications for Testing:

Arthritis

• Fibromyalgia

- Antibiotic useSkin problems
- Autoimmune diseaseChronic Fatigue
 - Osteoporosis
 - Diabetes

The CDSA is comprised of the following clinically useful panels:

- Digestion Markers: An indirect evaluation of digestive function, providing insight into adequate digestive enzyme production and maldigestion. Markers include Chymotrypsin, Putrefactive Short Chain Fatty Acids (SCFAs), Meat Fibers and Vegetable Fibers.
- Absorption Markers: Elevated levels of the listed fatty acids may indicate maldigestion, malabsorption, altered transit time, and small bowel bacterial overgrowth. Markers include Long Chain Fatty Acids, Phospholipids, Cholesterol, Triglycerides and Total Faecal Fat.
- Metabolic Markers: These markers identify imbalances that are associated with increased toxic burden, small bowel bacterial overgrowth or severe inflammation. Abnormal levels are associated primarily with intestinal conditions, including potential risk for colorectal cancer. Markers include Beneficial SCFAs, n-Butyrate, Beta-Glucuronidase, pH, Fecal Lactoferrin, Macroscopic exam, and Occult blood.
- Microbiology Markers: Provides quantitative measures of the beneficial flora Lactobacillis and Bifidobacterium as well as additional aerobic flora as they present in culture. These include strict pathogenic bacteria and potentially pathogenic bacteria and yeast.
- **Parasitology**: (If ordered) (EIA and microscopic evaluation) This evaluation demonstrates the highest documented recovery rates available (22% positivity rate). It quantifies all ova and parasites identified. Microscopic evaluation for yeast and blood cells is included.



• Analytes:

Triglycerides chvmo-trypsin Putrefactive SCFAs meat and vegetable fibers long chain fatty acids cholesterol total fecal fat total short chain fatty acids n-butyrate short chain fatty acid distribution beta glucuronidase рΗ bacterial and yeast cultures sensitivities as appropriate fecal lactoferrin macroscopic analysis Parasitology (if ordered)

•Specimen Requirements:

5cc stool in each vial– Formalin and Cary/Blair

•Before Taking this Test:

Avoid antimicrobials, laxatives, and anti-diarrheals (for 3 days)
Avoid or reduce anti-inflammatories, digestive enzymes, and most pain relievers (for 2 days)
See instructions inside test kit for more details

• *Turn-Around Time:* 14 Days



Comprehensive Digestive Stool Analysis

Absorption

22.9

28.5

Microbiology

(0.6

1.2

(3.8

Total values equal the sum of all measurable parts.

Triglycerides

Long Chain

Fatty Acids

Cholesterol

Fecal Fat

(Total*)

Phospholipids

Genova Diagnostics (Europe Parkgate House 356 West Barnes Lane New Malden Surrey KT3 6NB

Reference Range

0.2-3.3 mg/g

1.3-23.7 mg/g

0.2-3.5 mg/g

0.2-8.8 mg/g

2.6-32.4 mg/g

This test reveals important clinical information about:

- Maldigestion that can result in GI symptoms such as gas, bloating, abdominal pain, diarrhea and constipation
- Chronic dysbiosis (altered gut ecology) and inflammation that can impair absorption. leading to deficiencies of nutrients, proteins, carbohydrates and fats, or induce systemic autoimmune reactions
- Excess bacterial enzyme activity in the intestine that can promote carcinogenesis. hormonal imbalances and GI irritation
- Short chain fatty acid inadequacy linked to increased incidence of colon cancer and ulcerative colitis
- Bacterial and yeast overgrowth underlying gastrointestinal symptoms, chronic fatigue, mood shifts, and weakened immune function
- Chronic digestive dvsfunction that can set the stage for the development of leaky gut, food allergies, toxic stress, and gut irritation

Bacteriology 53.3 >= 13.6 micromol/g **Beneficial Bacteria** Lactobacillus species (3+) *NG 10.5 >= 2.5 micromol/g Escherichia coli Bifidobacterium (2+)1.327 337-4.433 U/a Additional Bacteria alpha haemolytic Streptococcus NP 6.9 6.1-7.9 gamma haemolytic Streptococcus NP Bacillus species NP (1+) * Total values equal the sum of all measurable parts. Citrobacter freundii DD Enterobacter cloacae PP **SCFA** distribution Mycology 62.1 44.5-72.4 % Candida albicans NP (1+ 18.3 <= 32.1 % Candida parapsilosis NP Hansenula anomala NP (1+ 19.7 10.8-33.5 % Rhodotorula species NP (2+)Inside Outside Reference Range Negative Negative Brown Brown Negative Negative *NG NP PP *NG Negative Negative No Growth Possible Pathogen Pathogen Non-Pathogen © Genova Diagnostics · CLIA Lic. #34D0655571 · Medicare Lic. #34-8475 CDS02 RMS 451 Rev 9 For test kits, clinical support, or more information contact: Genova Diagnostics, Europe

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Genova

Patient: SAMPLE

DOB: April 25, 1980

Chymotrypsin

SCFAs (Total*)

Putrefactive

Meat Fibers*

Beneficial

n-Butyrate

Glucuronidase

Acetate %

Propionate %

n-Butyrate %

Lactoferrin* Macroscopic

Occult blood

Fecal

Color

Mucus

Immunology

Beta-

рН *

SCFAs (Total*)

Vegetable Fibers

Sex: M

MRN:

PATIENT

Diagnostics

Innovative Testing for Optimal Health

Digestion

(4.3)

* Total values equal the sum of all measurable parts.

Inside

None

Few

Metabolic Markers

5.1

Europe

Order Number:

Completed: November 28, 2007

Received: November 21, 2007

Collected: November 15, 2007

Reference Range

0.9-26.8 U/a

1.3-8.6 micromol/g

None

Reference Range

Reference Range

None - Few

Route Number: A080461

Outside

More detailed publications with references are also available: www.GDXuk.net

