



# Testing Services Overview

ADVANCED CLINICAL  
LABORATORY SOLUTIONS



GUT HEALTH



NUTRITIONAL STATUS



IMMUNE FUNCTION



HORMONAL HEALTH



SPECIALITY TESTING

GENOVA  
DIAGNOSTICS®



## Gut Health

The **GI Effects® Profiles** are advanced stool tests that provide immediate, actionable clinical information for the management of gastrointestinal health. Utilizing cutting-edge technologies and biomarkers, these tests can reveal important information about the root cause of **many common gastrointestinal symptoms such as gas, bloating, indigestion, abdominal pain, diarrhea, and constipation.**



The GI Effects Profiles go beyond standard parameters for identifying gastrointestinal disorders. The profiles use the best of molecular, microscopic, and immunoassay approaches to evaluate anaerobes, parasites, firmicutes/bacteroidetes ratio, absorption, inflammation, and sensitivities.

Genova offers comprehensive testing for all parasites on every parasitology exam ordered. Testing incorporates a microscopic ova and parasite (O&P) exam, as well as 6 protozoan PCR targets. A macroscopic examination for worms is included in the **Gut Pathogen Profile** and as an add-on to the GI Effects profiles.



**SIBO Profiles** are non-invasive breath tests that capture exhaled hydrogen and methane gases following patient ingestion of a lactulose solution.

- Clinicians now have the **option of a 2- or 3-hour SIBO assessment.** The 3-hour SIBO profile provides insight into gas levels over a longer period of time, and is recommended for patients with slower gastrointestinal transit or constipation.



## Immune Function

Genova offers a full line of serum allergy and sensitivity testing including IgG/IgE Foods, Inhalants, Molds, and Spices. Symptoms such as migraines, aching joints, fatigue, gastrointestinal disorders, and others have been linked to food sensitivity and environmental allergies.

- **IgG Food Antibodies** is an ELISA test that provides insight into delayed reactions/sensitivities to specific foods. Additionally, the IgG Food Antibody Assessment includes information on implementing an Elimination Diet based on the patient test results.
- **IgE Food Antibodies Profile** analyzes serum levels of total IgE antibodies for 19 combined foods and total IgE.
- **IgE Inhalants** is a chemiluminescent test to evaluate serum IgE antibody levels to 14 region-specific common pollens and environmental inhalants. It is an ideal test for patients with suspected environmental and/or seasonal allergies.
- **IgE Mold** is a chemiluminescent test to evaluate serum IgE antibody levels to 15 molds. It is an ideal test for patients with suspected environmental allergies specific to molds.
- **IgG Spices** utilizes ELISA technology to evaluate serum for levels of IgG and total IgE antibodies for 24 frequently used culinary herbs and spices. It is an ideal test for patients with suspected intolerance to spices and herbs.



## Allergy & Sensitivity



## Nutritional Status



**NutrEval®** provides an assessment of core nutrients in 5 key areas: **Antioxidants, B Vitamins, Digestive Support, Essential Fatty Acids, and Minerals**. NutrEval was designed for the clinical management of symptoms and conditions related to nutritional and digestive insufficiencies. NutrEval testing may be helpful in:

- Mood disorders
- Health and sports fitness optimization
- Malnutrition and/or weight issues
- Fatigue and/or sleep disturbances
- Gastrointestinal/digestive complaints
- Fibromyalgia

Amino acid testing can be done using plasma or urine samples. We also offer the option of ordering one or more of the following select genomics testing SNPs: **MTHFR, COMT, TNF- $\alpha$ , APOE**



The **Metabolomix+** is a unique combination of nutritional tests that provides an analysis of key nutritional biomarkers. A first morning void (FMV) urine collection, with optional add-on bloodspot finger stick and buccal swab, the Metabolomix+ nutritional test is a non-invasive, patient-friendly way to assess the functional need for **antioxidants, B-vitamins, minerals, digestive support, fatty acids, and amino acids**. Insights gained from the Metabolomix+ nutritional test allows clinicians to target nutritional therapies to meet the precise needs of their patients.



The **Methylation Panel** measures plasma levels of key amino acids and intermediate metabolites involved in the cycles of methylation, homocysteine transsulfuration, and folate metabolism. Additionally, single nucleotide polymorphisms are analyzed using a buccal swab to give insight into genetic predispositions that affect enzymatic activity within these pathways.



The **Organix® Comprehensive Profile** is a nutritional test that provides insights into organic acids and a view into the body's cellular metabolic processes. Identifying nutrient dependent metabolic enzyme dysfunction allows individualized treatment and improved patient outcomes.



# Hormonal Health



The **One Day Hormone Check™** is a convenient salivary hormone test that evaluates unbound, bioavailable hormone levels over 24 hours. Specimens are examined for levels of estradiol, estrone, estriol, progesterone, the progesterone/estradiol ratio (P/E2), testosterone, cortisol, DHEA, and melatonin.



**Adrenocortex Stress Profile (ASP)** is an at-home salivary hormone test to evaluate key stress hormones: cortisol and DHEA. Six samples provide diurnal cortisol assessment and **Cortisol Awakening Response (CAR)** calculation. Diurnal cortisol measurement uncovers specific stressors throughout the circadian rhythm, while CAR represents HPA axis resiliency.



**Hormonal Health™** provides a focused overview of hormonal balance in both pre- and post-menopausal women. It uses a single serum sample to evaluate dynamics of sex steroid metabolism that can profoundly affect a woman's health throughout her lifetime.



Saliva



Urine



Serum



# Specialty Testing



**DetoxiGenomic Profile.**

**DetoxiGenomic Profile** is available with a simple buccal swab specimen collection. DetoxiGenomic can include numerous **a la carte SNPs Add-ons**.

# Genova Diagnostics

The **Genova Diagnostics team will improve the lives and well-being of individuals by bringing insights to the complexity of health.**

Chronic diseases are often complex, and Genova's system-based testing helps physicians develop targeted treatments for their patients. Easy-to-read color graphic reports synthesize test results into actionable information and facilitate physician-patient communication. Our internationally renowned lab is committed to the highest standards. Genova has a Medical Education team that provides consultation to healthcare professionals, and a variety of educational resources, enabling clinicians to order the right test for their patients.

**For more information on Genova Diagnostics, please visit our website at [www.gdx.net](http://www.gdx.net).**



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