

# IgG Food MAP with xMAP® Technology Now with Revolutionary Immunofluorescent Bead Technology

# What Makes the IgG Food MAP a Superior Test?



### Assesses 190 Foods

Includes a wide range of foods, common in the Western, Asian, and Mediterranean diets. We have added a hemp allergy marker because it is very common now as a food source or as medical CBD. We are able to run the IgG Food MAP on both serum and dried blood spot samples.



### Upgraded Technology

Antigen-specific IgG antibodies are captured on multiplexed magnetic beads, using xMAP® (Multiple Analyte Profiling) technology. The xMAP® bead-based immunoassay allows for the simultaneous detection of IgG antibodies to all 190 foods in two single test wells, reducing sample volume requirements and reagents while increasing sensitivity and specificity as compared to traditional plate-based ELISA tests. The upgraded immunoassay is cost and time effective, easy to perform and reproducible. We have now fully automated all steps of our testing processes, leading to even better precision.



### Greater Reliability of Results

In the multiplexed bead-based immunoassay, food antigenic proteins are first covalently bound to beads. The beads are mixed with the patient's sample where bead-bound antigens capture the specific IgG antibodies present in the sample. The food-specific IgG antibody level of each sample is detected with a fluorescent-labeled antibody against IgG. Every reaction with a patient sample also contains control beads to ensure accurate results. The fluorescent signal is measured using an xMAP® analyzer. The amount of food-specific antibody detected per allergen specific bead is directly proportional to the fluorescent signals. The higher the fluorescence, the more specific IgG antibodies are present in the sample. Once test results are available for review, our Quality Assurance (QA) team carefully verifies that quality control measures are within instrument and assay specifications.

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### **Upgraded Sensitivity and Specificity**

GPL's xMAP<sup>®</sup> immunoassay with fluorescence readout has proven to be even more sensitive than ELISA tests. The IgG Food MAP test detects all food antibodies with greater precision than ELISA tests thanks to the superior technology we've developed for the test.



### **Ecofriendly Technology**

The xMAP® bead-based immunoassay is environmentally friendly, reducing plastic pollution. In the ELISA, a panel for 190 foods would require 190 wells (2 plates) per sample. In contrast, the beadbased platform only requires two wells per sample. In other words, the bead-based immunoassay would use just one plastic microtiter plate for testing 48 samples, while the ELISA would use 96 plates to test the same number of samples.



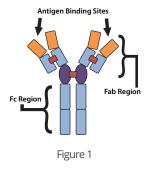
### Tests for Specific Food Antigenic Proteins

GPL has upgraded from the ELISA's single analyte detection to multiple analyte detection. The multiplexed, bead-based assay only detects IgGs against food antigenic proteins that were covalently bound to the beads, making this assay more specific to proteins than the ELISA. In the ELISA, there is no covalent binding of proteins; instead, proteins or other antigens are bound to the surface of a plastic well by adsorption. This non-specificity of the surface allows the binding of glycan-rich molecules such as *Candida* and yeast. Because of this, GPL is providing a separate report for the yeasts which will be tested by ELISA, rather than the xMAP<sup>®</sup> immunoassay.

# What is IgG?

IgG is the major antibody found in serum. IgGs are composed of two fragment antigen binding (Fab) regions that contain the antigen binding sites and the Fc region, which is responsible for most of the biologic activity of the antibodies (Figure 1). An antigen is a substance that causes the immune system to produce an antibody that specifically reacts with it. IgG-mediated reactions to food antigens may be delayed by several hours or days, whereas IgE food antibody reactions are quite immediate.

Human IgG is separated into four subclasses denoted IgG1, IgG2, IgG3, and IgG4. Each subclass varies in abundance and biological function. IgG1 and IgG3 are predominantly responsible for antibody protection against reinfection. IgG2 antibodies are opsonic (marking a pathogen for ingestion and destruction) and develop in response to carbohydrate polysaccharide antigens. IgG4 molecules function as skin-sensitizing immunoglobulins and are thought to block antibodies produced in response to chronic exposure to antigens.



# Why Test IgG Sensitivities?

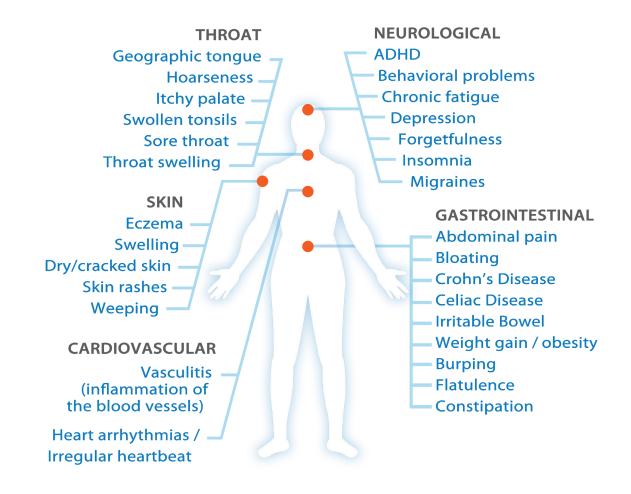
Immunoglobulin G (IgG) food testing is a useful guide for structuring elimination diets for patients with many chronic conditions. Individuals with neurological, gastrointestinal, movement, and behavioral disorders often suffer from IgG food sensitivities. People may continue to eat offending foods unaware of their potential adverse effects. Symptoms associated with food sensitivities may occur hours or days after the offending food was eaten because IgG food antibodies remain for a much longer time than IgE antibodies. IgE food allergy causes the release of histamine, producing an immediate hypersensitivity reaction. In contrast, IgG food sensitivity is triggered by the binding of complement to IgG food antigen complexes, causing an inflammatory response. This is a delayed hypersensitivity reaction in which symptoms appear anywhere from hours to days after eating the offending food. Elimination of IgG-positive foods may improve symptoms of irritable bowel syndrome, autism, AD(H)D, cystic fibrosis, rheumatoid arthritis, and epilepsy, according to numerous clinical studies.

# **Clinical Significance of IgG Testing**

The clinical significance of IgG food testing was illustrated in an early article published by an otolaryngologist who reported that the majority of his patients had substantial health improvements after eliminating foods found positive by IgG food allergy testing. The study demonstrated a 71% success rate for all symptoms, achieving at least a 75% relief. Of particular interest was the group of patients with chronic, disabling symptoms, unresponsive to other intensive treatments. Symptoms most commonly improved (75%-100%) on the elimination diets included asthma, coughing, ringing in the ears, chronic fatigue, headaches, gas, bloating, diarrhea, skin rash and itching, and nasal congestion. The most common IgG food allergies were to cow's milk, garlic, mustard, egg yolk, tea, and chocolate. A recent study reported that 93% of non-celiac, gluten-sensitive patients showed anti-gliadin IgG antibody disappearance after a six-month adherence to a gluten-free diet. The IgG disappearance was closely related to a significant improvement of both gastrointestinal and extra-intestinal symptoms.

High IgG antibody levels have frequently been found in children with diabetes mellitus, Crohn's disease, celiac disease, and in those considered to be obese. IgG food test results are often used to develop food antibody-guided exclusion / elimination diets. The implementation of such diets has been shown to alleviate symptoms associated with non-celiac gluten sensitivity and food sensitivity-induced atopic conditions, reduce the frequency of migraine headaches, decrease the occurrence of diarrhea, decrease failure-to-thrive among children with cystic fibrosis, reduce symptoms of irritable bowel syndrome, improve rectal compliance, decrease stool frequency in Crohn's disease, prevent seizures and hyperkinetic behavior in children with epilepsy, and ameliorate kidney function in glomerulonephritis. Food elimination diets also hold promise for the improvement of behaviors associated with attention-deficit hyperactivity disorder.

# IgG Food MAP with xMAP® Technology



# Significance of Total IgG Versus IgG4

The goal of IgG-mediated food allergy testing is to identify foods that are capable of triggering many adverse reactions. IgG1, IgG2, and IgG3 are all capable of causing inflammation. IgG1, IgG2, and IgG3 antibodies to food antigens form large immune complexes or lattices that activate complement proteins and increase inflammation. IgG4 antibodies to food antigens will not usually trigger inflammation because IgG4 antibodies do not bind complement. However high levels of these antibodies indicate the presence of immune reactions against food antigens. Similarly IgA antibodies are not as clinically significant due to their inability to bind complement and trigger inflammation.

While most laboratories only provide a measurement of IgG4 molecules, The Great Plains Laboratory provides a measurement of total IgG antibodies to various food-based antigens and *Candida*, a genus of yeast native to the GI tract. Testing for only IgG4 antibodies limits the ability of the clinician to identify those foods that may be causing significant clinical reactions in their patients. IgG4 antibodies usually represent less than 6% of the total IgG antibodies. The importance of measuring all subtypes of IgG antibodies is highlighted in an article by Kemeny et al. They found that IgG1 antibodies to gluten were elevated in all patients with celiac disease but none of the patients had elevated IgG4 antibodies to gluten.

# The IgG and Candida Connection

The Great Plains Laboratory tests for *Candida albicans* (a microscopic fungal organism and pathogenic yeast) as part of IgG food allergy testing. High levels of IgG antibodies to Candida have been found in patients who reported many symptoms of yeast overgrowth. *Candida* problems are caused when the benign yeast form of *Candida albicans* transforms to its fungal form and produces a buildup of toxins in the body. *Candida* can overgrow areas of the intestinal

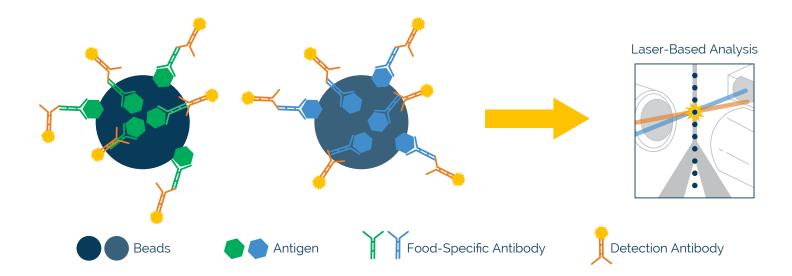
mucosa resulting in numerous symptoms, including creating microscopic holes in the lining of the intestines, leading to what is commonly known as "leaky gut" syndrome. *Candida albicans* proteins may trigger an inflammatory response. A wide range of disorders have been linked to *Candida* overgrowth including autism, multiple sclerosis, depression, chronic fatigue, fibromyalgia, migraines, and irritable bowel syndrome. Immunocompromised patients with cancer or AIDS can have life-threatening complications if *Candida* enters the bloodstream, resulting in systemic candidiasis. Use of antibiotics, oral contraceptives, chemotherapy, anti-inflammatory steroids, and diets high in sugar and starch increase susceptibility to *Candida* overgrowth.

Research has revealed a relationship between health of the gastrointestinal tract and overall well-being. Imbalance between good and bad bacteria (dysbiosis) has been shown to worsen behavior disorders, hyperactivity, aggression, and cause fatigue. Evidence is mounting that dysbiosis impairs the immune system and contributes to food allergies, digestive disorders, nutritional deficiencies, and cognitive dysfunction. Using the Food MAP (which will include a separate report for *Candida* and brewer's yeast) will help identify food allergies and *Candida* sensitivity that may be creating a variety of problems for patients. Practitioners may then recommend elimination of the identified foods and supplementation with various natural products that control *Candida* overgrowth and assist with healing of the gut. Depending on the levels of *Candida* and the severity of a patient's symptoms, further testing may be recommended, including a Comprehensive Stool Test or Organic Acids Test.

# Multiple Analyte Profiling with xMAP® Technology

The bead-based immunofluorescent assay uses color-coded magnetic beads, which are covalently coupled to 190 different food proteins specific to each protein's IgG target. The color-coding of the beads into spectrally distinct sets allows the simultaneous capture and detection of multiple food IgG analytes from a single reaction well.

The xMAP® bead-based immunoassay occurs on the surface of magnetic beads by adding a patient's serum sample and observing the classic antigen/antibody interaction, detected by using a fluorescent labeled antibody. Laser-based analysis of the fluorescent signal response is proportional to the binding of food-specific IgG antibodies onto the beads.



# IgG Food MAP with xMAP® Technology

Bamboo Shoot

Bean Sprout

**Bell Pepper** 

Broccoli

Cabbage

Cauliflower

Chili Pepper

Enoki Mushroom

Cucumber

Eggplant

Garlic

Kale

Leek

Lettuce

Onion

Potato

Radish

Kelp

Spinach

Tomato

Yam 

Yuca

Zucchini

Bay Leaf

**Herbs/Spices** 

Basil

Pumpkin

Seaweed Kombu

Seaweed Wakame

Shitake Mushroom

Seaweed Nori

Sweet Potato

Yellow Squash

Lotus Root

Napa Cabbage

Olive (Green)

Portabella

Mushroom

Carrot

Celery

Bitter Gourd

**Brussel Sprout** 

**Burdock Root** 

Beet

Black Pepper

Cilantro

Cloves

Cumin

Curry

Ginger

Hops

Mint

Miso

Mustard Seed

Oregano

Rosemary

Tarragon

Turmeric

**Miscellaneous** 

Bromelain

Coffee

Honey

Vanilla Bean

Cane Sugar

Cocoa Bean

Green Tea

Meat glue

**Oolong** Tea

5

Thyme

Paprika

Sage

Dill

Cinnamon

Cayenne Pepper

# Analyte List (190 Foods + Candida and Saccharomyces Cerevisiae)

### Dairy

- Beta-Lactoglobulin
- Casein
- Cheddar Cheese
- Cow's Milk
- Goat's Milk
- Mozzarella Cheese
- Sheep's Yogurt
- Whey
- Yogurt

### **Beans and Peas**

- Adzuki Bean
- Black Bean
- Garbanzo Bean
- Green Bean
- Green Pea
- Kidney Bean
- Lentil
- Lima Bean
- Mung Bean
- Navy Bean
- Pinto Bean
- Soybean
- Tofu

### **Fruits**

- Acai Berry
- Apple
- Apricot
- Banana
- Blueberry
- Cantaloupe
- Cherry
- Coconut
- Cranberry
- Date
- Grape
- Grapefruit
- Guava
- Jackfruit
- Kiwi
- Lemon
- Lychee
- Mango

- Orange
- Papaya
- Passion Fruit
  - Peach
- Pear
- Pineapple Plum
- - Pomegranate
    - Raspberry
  - Strawberry Watermelon

### Grains

- Amaranth
- Barley
  - **Buckwheat**
  - Corn
  - Gliadin
  - Malt
  - Millet
  - Oat
  - Ouinoa
- Rice
- Rye
- Sorghum
- Teff
- Wheat Gluten
- Whole Wheat

### Fish/Seafood

- Abalone
- Anchovy
- Bass
  - Bonito
  - Codfish
- Crab
- Halibut
- Jack Mackerel
- Lobster
- Octopus
- Oyster
- Pacific Mackerel (Saba)
- Pacific Saury
- Perch

- Red Snapper
- Salmon
- Sardine
- Scallop
- Shrimp Small Clam
- Squid
- Tilapia
- Trout
- Tuna

### **Meat/Fowl**

Beef 

- Chicken
- Duck
- Egg White Egg Yolk

Goose

Lamb

Pork

Turkey

Nuts/Seeds

Almond

Brazil Nut

Cashew

Chestnut

Chia Seed

Flax Seed

Hazelnut

Peanut

Pecan

Pine Nut

Pistachio

Walnut

Artichoke

Asparagus

Avocado

Vegetables

Pumpkin Seed

Sesame Seed

Sunflower Seed

Hemp Seed

Macadamia Nut

# Sample Report

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Beta-Lactoglobulin	10.			1.10	Rice	Continued 9.98	Beef	
Casein	28	29 Date		8.42	Rye	9.33	Chicken	
Cheddar Cheese Cow's Milk	19.			7.64	Sorghum Teff	7.67	Duck	
Goat's Milk	20.	Granofruit		15.12	Wheat Gluten	5.45	Egg White Egg Yolk	
Mozzarella Cheese	16.	28 Guava		2.55	Whole Wheat	26.14	Goose	
Sheep's Yogurt	2.	Minud		17.27	Fish/Seafood		Lamb	
Whey Yogurt	27.			4.33	Abalone Anchovy	0.67	Pork Turkey	
Beans and Peas	27	Lychee		2.70	Bass	0.24	Nuts/Seeds	
Adzuki Bean	8.	Mango 8		4.58	Bonito	1.27	Almond	
Black Bean	8	Panava		8.41	Codfish	0.91	Brazil Nut	
Garbanzo Bean Green Bean	5.	Passion Fruit		1.79	Crab Halibut	0.38	Cashew Chestnut	
Green Pea	10.	Peach 78		13.04	Jack Mackerel	0.32	Chia Seed	
Kidney Bean	8	Pear 9 Pinesople		2.35	Lobster	0.37	Flax Seed	
Lentil	7.	i3 Plum		9.13	Octopus	0.63	Hazelnut	
Lima Bean Mung Bean	3.	17 Pomeoranate		1.27	Oyster Pacific Mackerel (Saba)	0.52	Hemp Seed Macadamia Nut	
Navy Bean	12.	Raspberry 10		5.21	Pacific Saury	0.33	Peanut	
Pinto Bean	6.	Strawberry		1.52	Perch	0.91	Pecan	
Soybean Tofu	13.	14		3.44	Red Snapper Salmon	1.27	Pine Nut Pistachio	
Totu Fruits	10.	Amaranth		6.64	Salmon Sardine	0.81	Pistachio Pumpkin Seed	
Acai Berry	5.			2.97	Scallop	0.60	Sesame Seed	
Apple		Buckwheat		2.39	Shrimp	0.60	Sunflower Seed	
Apricot	17.	)2 Gliadin		6.83	Small Clam Squid	0.60	Walnut	
Banana Blueberry	5.	Malt		1.23	Tilapia	0.68	Vegetables Artichoke	
Cantaloupe	2	Millet 32		8.31	Trout	0.74	Asparagus	
Cherry	27.	Oat		6.23	Tuna	3.30	Avocado	
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## Sample Report, continued



#### Congratulations

The IgG test was an important step in improving your health. A Food Rotation Diet based on your results may further improve your symptoms. The Great Plains Laboratory. Inc.

OTATION DIET BASED ON IGG RESULTS

The following personalized rotation diet is presented as an example of this approach to symptom reduction based on your loG results.

Foods that showed elevated IgG levels on your test (those in the moderate or high categories) have been removed from rotation. Your rotation diet is constructed from the foods that tested in the clinically insignificant or low categories on your results. Foods were grouped by food families, such as the cabbage family or the fish family, as related organisms are more likely to share similar proteins with similar immune reactivity.

Rotation diets are a recommended method for reducing negative responses to foods

In general, eating from different food families distributed over several days reduces overall inflammation and toxic load, as In general, earling fund memorin took lamines basinouted over several and users recurso soveral initialminiation and took dat, as well as lessening the chance of developing additional does destibitives. Consult your health predictioner for advice on how long to follow your rotation det and when to reintroduce foods as a challenge. Many individuals require at least a year or more of food elimination and rotation for IgG levels to returm to normal. Continuing to eat a variety of whole foods is a healthy lifestyle choice.

#### Rotation diets may reduce overall food reactivity:

Eating similar foods every day is an easy pattern to adopt for busy lives, however, this behavior may increase food reactivity. Rotating foods decreases the burden on the immune system and possibly reduces overall toxin bad, while providing adequate nutrition and variety. Food carvings may leasen and awarenees of responses to specific foods may be heightened. Rotating foods may also 'unmask' hidden food sensitivities, especially if a detailed food and symptom daily record is

Please note that the rotation diet is based only on IgG testing:

Testing for IgE antibodies to food allergens should be considered PRIOR TO BEGINNING A ROTATION DIET, even if histamire reactions are not symptomatically evident. The most common IgE reactions are to dairy, eggs, peanuts, or sealcod. IgE allergies are most common in childhood, and often are outgrown by adulthood.

For additional information and references on IgG and dietary intervention, please visit <u>www.greatplainslaboratory.com,</u> Select A Test – IgG



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Fish/Seafood			
Anchovy Codfish Halibut Sardine	Abalone Crab Jack Mackerel Lobster Octopus Oyster Scallop Shrimp Small Clam Squid	Perch Red Snapper Salmon Trout	Bass Bonto Pacific Saury Tuna
Meat/Fowl			
Beef Lamb	Chicken Duck Goose Turkey		Pork
Nuts/Seeds			
Flax Seed Pine Nut Sesame Seed	Chestnut Hemp Seed Pecan Walnut	Cashew Chia Seed Macadamia Nut	Brazil Nut Pistachio Pumpkin Seed
Vegetables			
Napa Cabbage Sweet Potato Yam	Artichoke Beet Bitter Gourd Burdock Root Seaweed Kombu Kelp Seaweed Nori Seaweed Wakame Spinach Zucchini	Asparagus Eggplant Leek	Bamboo Shoot Bean Sprout Carrot Enoki Mushroom Lettuce Lotus Root Portabelia Mushroom Shitake Mushroom
Herbs/Spices			
Bay Leaf Cinnamon Cloves Tarragon	Black Pepper Ginger Miso Turmeric	Basil Mint Oregano Rosemary Sage Thyme	Cilantro Curry Dill Hops Vanilla Bean

Four Day Rotation Diet – Customized for You Day 2 Day 3 Day 4 Day 1 Dairy Goat's Milk Sheep's Yogurt Beans and P Black Bean Kidney Bean Navy Bean Pinto Bean Adzuki Bear Lentil Lima Bean Garbanzo Bea Acai Berry Cantaloupe Guava Orange Pomegranate Blueberry Cranberry Grape Kiwi Plum Raspberry Strawberry Apple Date Lychee Passion Fruit Banana Mango Pineapple Amaranth Buckwheat Oat Quinoa Com Barley Malt Rve Millet Sorghum

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The Candida and Yeast antigens were not suitable for the xMAP® technology. Therefore, antibodies to these antigens were measured by ELISA and this report is provided at no additional charge.

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"I believe the Great Plains IgG Food Allergy Test is a phenomenal tool that I have implemented in my practice on a daily basis to help treat patients for a wide variety of symptoms like headaches, IBS, fatigue, abdominal pain, dermatitis, hair loss, joint pain, acne, thyroid disorders, and vitamin deficiencies. I believe I am a better physician due to this testing transforming my ability to properly diagnose and treat patients effectively."

- Bridget, M.D.

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# The Benefits of Testing

- IgG testing determines if food reactions are contributing to physical or mental symptoms, and much more quickly than eliminating and then reintroducing each suspect food one-by-one over a period of time.
- Removal of highly reactive foods from the diet is a non-invasive therapy that often mitigates a patient's symptoms.
- Research and clinical studies suggest food allergies identified by IgG testing can be major contributing factors to many chronic health conditions.
- Eliminating all identified IgG-positive foods after testing can reduce stress on the immune system, decrease inflammation (helping to heal "leaky gut"), resolve food cravings, and reduce the potential for eating disorders.

Contact Us

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