

PATIENT INFO

NAME: **SAMPLE REPORT**
 REQUISITION ID: R#
 SAMPLE ID: Sample #
 DOB: -
 SAMPLE DATE: -
 RECEIVE DATE: -
 REPORT DATE: 9/7/2017

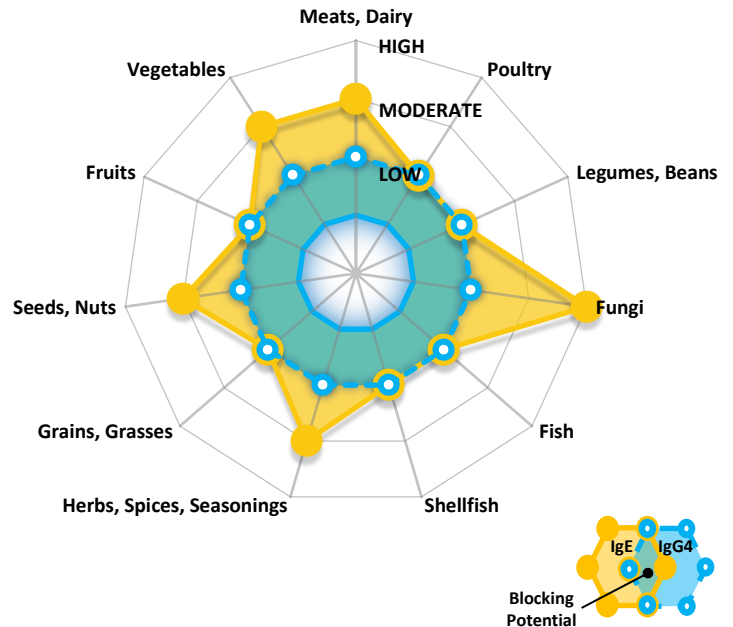
CLINIC INFO

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588E - Dietary Antigen Testing | 1/4

Dietary Antigen Exposure by Food Group

	IgE	IgG4
Meats, Dairy	MODERATE	LOW
Poultry	LOW	LOW
Legumes, Beans	LOW	LOW
Fungi	HIGH	LOW
Fish	LOW	LOW
Shellfish	LOW	LOW
Herbs, Spices, Seasonings	MODERATE	LOW
Grains, Grasses	LOW	LOW
Seeds, Nuts	MODERATE	LOW
Fruits	LOW	LOW
Vegetables	MODERATE	LOW



Dietary Antigen Exposure by Food Group

In this test, a human serum sample is probed for the presence of IgE and IgG4 antibodies which have an exact affinity for specific dietary allergens. Dietary allergens are clustered by the food groups shown in the table and graph above. The quantitative summation of the IgE and IgG4 results within the offending food groups are expressed graphically. The exclusion of the offending food group(s) from the diet has been shown to reduce the severity of symptoms associated with food allergies.

Blocking Potential

In high levels, IgG4 antibodies alone can trigger an immune response within the body. However, data is available that provides support for the notion that IgG4 can serve another specific function of controlling antigen recognition by IgE and consequently regulating anaphylactic reactions and IgE-mediated immunity. IgG4 can act as a blocking agent by preventing IgE from binding to targeted receptor sites and releasing histamine. We refer to this as the blocking potential.

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Understanding the Key

It is important to understand how reactive your patient is to a given food. If the patient had a high reaction, they are considered in the top 2.5% in terms of reactions; moderate reactions represent the next 2.5%. This means that moderate or severe reactions represent the top 5% of reactivity. A low reaction represents a broader population of reactivity at 20%. Therefore low, moderate, and high reactions combined represent 25% of the most reactive patients.

IgE

The IgE antibody response is the most commonly known food allergy response. This response usually occurs immediately and can create severe symptoms such as swelling, hives, itching, and - in some cases - anaphylaxis. Even though IgE reactions are immediate, the allergic potential of food-based allergens can remain in your system 1-2 days after ingestion, extending the presence of symptoms during this duration. IgE reactions can be permanent or they may improve with the elimination diet and gut treatment. IgE reactions stimulate the release of histamine in the body.

IgG4

IgG4, which is a subclass of IgG, is a distinct antibody in the immune system. IgG4 total antibody is important in relation to IgE because this antibody acts as a blocking agent for an IgE reaction. When the IgG4 reaction is greater than the IgE reaction for a particular antigen, IgG4 blocks the IgE antibodies from binding to the receptor sites and releasing histamine, thereby reducing severity of the symptoms associated with the IgE reaction. This is referred to as the blocking potential. IgG4 carries its own clinical relevance in high levels and may mediate several conditions and diseases.

Patient Results

ANTIGEN	RESULT	IgE	REF. RANGE
MEATS, DAIRY			
Beef		0.00 ng/ml	0.00 - 41.47 ng/ml
Casein	MODERATE	5.41 ng/ml	0.00 - 41.47 ng/ml
Cow's Milk	HIGH	13.46 ng/ml	0.00 - 41.47 ng/ml
Goat's Milk	HIGH	11.00 ng/ml	0.00 - 41.47 ng/ml
Pork		0.00 ng/ml	0.00 - 41.47 ng/ml
POULTRY			
Chicken		0.00 ng/ml	0.00 - 41.47 ng/ml
Egg Albumin		0.00 ng/ml	0.00 - 41.47 ng/ml
Egg Yolk		0.00 ng/ml	0.00 - 41.47 ng/ml
Turkey		0.00 ng/ml	0.00 - 41.47 ng/ml
LEGUMES, BEANS			
Green Pea		0.00 ng/ml	0.00 - 41.47 ng/ml
Kidney/Pinto	MODERATE	5.83 ng/ml	0.00 - 41.47 ng/ml
Navy Bean		0.00 ng/ml	0.00 - 41.47 ng/ml
Peanut		0.00 ng/ml	0.00 - 41.47 ng/ml
Soybean		0.00 ng/ml	0.00 - 41.47 ng/ml
FUNGI			
Aspergillus Mix	HIGH	36.09 ng/ml	0.00 - 41.47 ng/ml
Brewer's Yeast	HIGH	17.92 ng/ml	0.00 - 41.47 ng/ml
Candida	HIGH	18.00 ng/ml	0.00 - 41.47 ng/ml
Mushroom		0.00 ng/ml	0.00 - 41.47 ng/ml
FISH			
Codfish		0.00 ng/ml	0.00 - 41.47 ng/ml
Flounder		0.00 ng/ml	0.00 - 41.47 ng/ml
Halibut		0.00 ng/ml	0.00 - 41.47 ng/ml
Salmon		0.00 ng/ml	0.00 - 41.47 ng/ml
Tuna		0.00 ng/ml	0.00 - 41.47 ng/ml
SHELLFISH			
Clam	HIGH	26.63 ng/ml	0.00 - 41.47 ng/ml
Crab		0.00 ng/ml	0.00 - 41.47 ng/ml
Lobster		0.00 ng/ml	0.00 - 41.47 ng/ml
Scallops		0.00 ng/ml	0.00 - 41.47 ng/ml
Shrimp		0.00 ng/ml	0.00 - 41.47 ng/ml

ANTIGEN	RESULT	IgG4	REF. RANGE	BLOCKING POTENTIAL
MEATS, DAIRY				
Beef		0.00 ng/ml	0.00 - 5.5 ng/ml	
Casein		0.00 ng/ml	0.00 - 131.9 ng/ml	
Cow's Milk		2.09 ng/ml	0.00 - 151 ng/ml	
Goat's Milk		1.76 ng/ml	0.00 - 117.8 ng/ml	
Pork		0.00 ng/ml	0.00 - 4.92 ng/ml	
POULTRY				
Chicken		0.00 ng/ml	0.00 - 7.26 ng/ml	
Egg Albumin		0.00 ng/ml	0.00 - 137 ng/ml	
Egg Yolk		0.00 ng/ml	0.00 - 68.9 ng/ml	
Turkey		0.00 ng/ml	0.00 - 4.32 ng/ml	
LEGUMES, BEANS				
Green Pea		0.00 ng/ml	0.00 - 6.52 ng/ml	
Kidney/Pinto		0.00 ng/ml	0.00 - 17.1 ng/ml	
Navy Bean		0.54 ng/ml	0.00 - 19.84 ng/ml	YES
Peanut		0.00 ng/ml	0.00 - 60.77 ng/ml	
Soybean		0.54 ng/ml	0.00 - 15.22 ng/ml	YES
FUNGI				
Aspergillus Mix		0.00 ng/ml	0.00 - 11 ng/ml	
Brewer's Yeast		0.00 ng/ml	0.00 - 7.09 ng/ml	
Candida	MODERATE	0.62 ng/ml	0.00 - 10.2 ng/ml	
Mushroom		0.00 ng/ml	0.00 - 18.08 ng/ml	
FISH				
Codfish		0.05 ng/ml	0.00 - 9.72 ng/ml	YES
Flounder		0.00 ng/ml	0.00 - 19.1 ng/ml	
Halibut		0.00 ng/ml	0.00 - 16 ng/ml	
Salmon		0.00 ng/ml	0.00 - 6.93 ng/ml	
Tuna		0.00 ng/ml	0.00 - 5.47 ng/ml	
SHELLFISH				
Clam		3.14 ng/ml	0.00 - 18.07 ng/ml	
Crab		0.00 ng/ml	0.00 - 13.5 ng/ml	
Lobster		0.00 ng/ml	0.00 - 10.78 ng/ml	
Scallops		0.00 ng/ml	0.00 - 4.71 ng/ml	
Shrimp		0.46 ng/ml	0.00 - 8.95 ng/ml	YES

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Patient Results

ANTIGEN	RESULT	IgE	REF. RANGE
HERBS, SPICES, SEASONINGS			
Basil	MODERATE	5.90 ng/ml	0.00 - 41.47 ng/ml
Black Pepper	HIGH	8.69 ng/ml	0.00 - 41.47 ng/ml
Cinnamon		0.00 ng/ml	0.00 - 41.47 ng/ml
Dill Seed	MODERATE	3.50 ng/ml	0.00 - 41.47 ng/ml
Garlic		0.00 ng/ml	0.00 - 41.47 ng/ml
Mustard		0.00 ng/ml	0.00 - 41.47 ng/ml
Oregano	MODERATE	4.59 ng/ml	0.00 - 41.47 ng/ml
Peppermint	MODERATE	7.24 ng/ml	0.00 - 41.47 ng/ml
Vanilla		1.33 ng/ml	0.00 - 41.47 ng/ml
GRAINS, GRASSES			
Barley		0.66 ng/ml	0.00 - 41.47 ng/ml
Corn		0.00 ng/ml	0.00 - 41.47 ng/ml
Gluten	MODERATE	4.25 ng/ml	0.00 - 41.47 ng/ml
Oat		0.00 ng/ml	0.00 - 41.47 ng/ml
Rice		0.00 ng/ml	0.00 - 41.47 ng/ml
Rye		0.00 ng/ml	0.00 - 41.47 ng/ml
Whole Wheat		0.00 ng/ml	0.00 - 41.47 ng/ml
SEEDS, NUTS			
Almond		0.00 ng/ml	0.00 - 41.47 ng/ml
Cacao	MODERATE	5.95 ng/ml	0.00 - 41.47 ng/ml
Coffee	MODERATE	3.04 ng/ml	0.00 - 41.47 ng/ml
Cottonseed		0.00 ng/ml	0.00 - 41.47 ng/ml
English Walnut		0.00 ng/ml	0.00 - 41.47 ng/ml
Pecan		1.53 ng/ml	0.00 - 41.47 ng/ml
Sesame	HIGH	7.37 ng/ml	0.00 - 41.47 ng/ml
Sunflower Seed		0.00 ng/ml	0.00 - 41.47 ng/ml
FRUITS			
Apple	MODERATE	3.50 ng/ml	0.00 - 41.47 ng/ml
Avocado		0.04 ng/ml	0.00 - 41.47 ng/ml
Banana		0.35 ng/ml	0.00 - 41.47 ng/ml
Blueberry		1.51 ng/ml	0.00 - 41.47 ng/ml
Cantaloupe		0.02 ng/ml	0.00 - 41.47 ng/ml
Cherry		0.02 ng/ml	0.00 - 41.47 ng/ml
Coconut		0.00 ng/ml	0.00 - 41.47 ng/ml
Cucumber		1.31 ng/ml	0.00 - 41.47 ng/ml
Grapefruit	MODERATE	3.29 ng/ml	0.00 - 41.47 ng/ml
Grapes	MODERATE	2.19 ng/ml	0.00 - 41.47 ng/ml
Green Olive	MODERATE	5.31 ng/ml	0.00 - 41.47 ng/ml
Green Pepper		0.00 ng/ml	0.00 - 41.47 ng/ml
Honeydew Melon		0.34 ng/ml	0.00 - 41.47 ng/ml
Lemon		0.00 ng/ml	0.00 - 41.47 ng/ml
Lime		0.00 ng/ml	0.00 - 41.47 ng/ml
Orange	MODERATE	6.13 ng/ml	0.00 - 41.47 ng/ml
Peach	MODERATE	4.16 ng/ml	0.00 - 41.47 ng/ml
Pear		0.00 ng/ml	0.00 - 41.47 ng/ml
Pineapple		0.00 ng/ml	0.00 - 41.47 ng/ml
Plum		0.00 ng/ml	0.00 - 41.47 ng/ml
Squash Mix		0.00 ng/ml	0.00 - 41.47 ng/ml
Strawberry		0.00 ng/ml	0.00 - 41.47 ng/ml
Tomato		1.21 ng/ml	0.00 - 41.47 ng/ml
Watermelon	MODERATE	3.29 ng/ml	0.00 - 41.47 ng/ml

ANTIGEN	RESULT	IgG4	REF. RANGE	BLOCKING POTENTIAL
HERBS, SPICES, SEASONINGS				
Basil		0.14 ng/ml	0.00 - 19.2 ng/ml	
Black Pepper		0.00 ng/ml	0.00 - 16.19 ng/ml	
Cinnamon		0.00 ng/ml	0.00 - 16.08 ng/ml	
Dill Seed		0.00 ng/ml	0.00 - 15.25 ng/ml	
Garlic		0.00 ng/ml	0.00 - 12.9 ng/ml	
Mustard		0.00 ng/ml	0.00 - 14 ng/ml	
Oregano		0.00 ng/ml	0.00 - 11.91 ng/ml	
Peppermint		0.54 ng/ml	0.00 - 9.34 ng/ml	
Vanilla		0.00 ng/ml	0.00 - 5.56 ng/ml	
GRAINS, GRASSES				
Barley	MODERATE	2.82 ng/ml	0.00 - 20.4 ng/ml	YES
Corn		0.00 ng/ml	0.00 - 9.05 ng/ml	
Gluten		1.84 ng/ml	0.00 - 133.8 ng/ml	
Oat		0.00 ng/ml	0.00 - 7.8 ng/ml	
Rice		0.00 ng/ml	0.00 - 7.72 ng/ml	
Rye		0.00 ng/ml	0.00 - 5.44 ng/ml	
Whole Wheat		0.00 ng/ml	0.00 - 9.88 ng/ml	
SEEDS, NUTS				
Almond		0.00 ng/ml	0.00 - 75 ng/ml	
Cacao		0.00 ng/ml	0.00 - 15.8 ng/ml	
Coffee		0.00 ng/ml	0.00 - 11.87 ng/ml	
Cottonseed		0.00 ng/ml	0.00 - 14.16 ng/ml	
English Walnut		0.00 ng/ml	0.00 - 20.9 ng/ml	
Pecan	MODERATE	0.70 ng/ml	0.00 - 9.04 ng/ml	
Sesame		0.00 ng/ml	0.00 - 4.11 ng/ml	
Sunflower Seed		0.54 ng/ml	0.00 - 11.04 ng/ml	YES
FRUITS				
Apple		0.00 ng/ml	0.00 - 13.2 ng/ml	
Avocado		0.00 ng/ml	0.00 - 12 ng/ml	
Banana		0.22 ng/ml	0.00 - 19.9 ng/ml	
Blueberry		0.00 ng/ml	0.00 - 12.1 ng/ml	
Cantaloupe		0.00 ng/ml	0.00 - 15.2 ng/ml	
Cherry		0.00 ng/ml	0.00 - 12.27 ng/ml	
Coconut		0.00 ng/ml	0.00 - 10.87 ng/ml	
Cucumber		0.00 ng/ml	0.00 - 7.15 ng/ml	
Grapefruit	MODERATE	1.68 ng/ml	0.00 - 41.35 ng/ml	
Grapes		0.46 ng/ml	0.00 - 9.27 ng/ml	
Green Olive		0.00 ng/ml	0.00 - 11 ng/ml	
Green Pepper		0.05 ng/ml	0.00 - 10.17 ng/ml	YES
Honeydew Melon		0.00 ng/ml	0.00 - 10.61 ng/ml	
Lemon		0.70 ng/ml	0.00 - 18.43 ng/ml	YES
Lime		0.46 ng/ml	0.00 - 12.53 ng/ml	YES
Orange		0.00 ng/ml	0.00 - 8.75 ng/ml	
Peach		0.00 ng/ml	0.00 - 12.65 ng/ml	
Pear		0.05 ng/ml	0.00 - 15 ng/ml	YES
Pineapple		0.46 ng/ml	0.00 - 4.88 ng/ml	YES
Plum		0.00 ng/ml	0.00 - 12.21 ng/ml	
Squash Mix		0.00 ng/ml	0.00 - 4.96 ng/ml	
Strawberry		0.00 ng/ml	0.00 - 6.84 ng/ml	
Tomato		0.00 ng/ml	0.00 - 4.17 ng/ml	
Watermelon		0.00 ng/ml	0.00 - 6.36 ng/ml	

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Patient Results

ANTIGEN	RESULT	IgE	REF. RANGE
VEGETABLES			
Asparagus	MODERATE	2.70 ng/ml	0.00 - 41.47 ng/ml
Broccoli	HIGH	10.69 ng/ml	0.00 - 41.47 ng/ml
Cabbage	MODERATE	5.70 ng/ml	0.00 - 41.47 ng/ml
Carrot		0.00 ng/ml	0.00 - 41.47 ng/ml
Celery		1.53 ng/ml	0.00 - 41.47 ng/ml
Horseradish		0.00 ng/ml	0.00 - 41.47 ng/ml
Lettuce	MODERATE	5.33 ng/ml	0.00 - 41.47 ng/ml
Onion	MODERATE	2.63 ng/ml	0.00 - 41.47 ng/ml
Spinach	MODERATE	2.63 ng/ml	0.00 - 41.47 ng/ml
Sweet Potato	MODERATE	3.64 ng/ml	0.00 - 41.47 ng/ml
Tea	HIGH	10.91 ng/ml	0.00 - 41.47 ng/ml
White Potato		0.00 ng/ml	0.00 - 41.47 ng/ml

ANTIGEN	RESULT	IgG4	REF. RANGE	BLOCKING POTENTIAL
VEGETABLES				
Asparagus		0.54 ng/ml	0.00 - 13.2 ng/ml	
Broccoli		0.00 ng/ml	0.00 - 13.7 ng/ml	
Cabbage		0.00 ng/ml	0.00 - 12.1 ng/ml	
Carrot		0.00 ng/ml	0.00 - 14.5 ng/ml	
Celery		0.00 ng/ml	0.00 - 8.85 ng/ml	
Horseradish		0.00 ng/ml	0.00 - 13.5 ng/ml	
Lettuce		0.00 ng/ml	0.00 - 14.94 ng/ml	
Onion		0.05 ng/ml	0.00 - 4.35 ng/ml	
Spinach		0.00 ng/ml	0.00 - 6.49 ng/ml	
Sweet Potato	MODERATE	1.27 ng/ml	0.00 - 9.24 ng/ml	
Tea		0.00 ng/ml	0.00 - 3.8 ng/ml	
White Potato		0.00 ng/ml	0.00 - 9.58 ng/ml	