



## GUIDE TO SERVICES

*Better Health  
Through Better Testing*



## OUR FOOD AND INHALANT SENSITIVITY TESTS ARE ALWAYS RUN TWICE — SO YOU NEVER HAVE TO SECOND GUESS.

**We aren't just a laboratory. A commitment to health and wellness is at the core of what we do. Our testing services feature unrivaled reliability, giving providers the tools they need to deliver effective, personalized care to their patients and help them build a foundation for a healthier life.**



For over three decades, US BioTek Laboratories has been providing immunology and chemistry profiles to health providers around the world.

Our CLIA-accredited facility in Shoreline, Washington, employs the latest laboratory science, advanced automation technology, and a dedicated research team to ensure every test is accurate and reproducible.

- Food Sensitivity
- Food Allergy
- Aeroallergens
- Candida
- Celiac
- Thyroid
- Environmental Pollutants
- Organic Acids
- Mycotoxins
- Microbiome
- Nutritional



# FOOD SENSITIVITY TESTING

## 96 GENERAL FOOD PANEL

*Specimen Type: Dried Blood Spot or Serum*

Food allergies and sensitivities are recognized to be correlated with many chronic health conditions, but with proper identification and elimination of offending foods, many experience relief from their symptoms. Our antibody assessment panels can serve as useful tools in the identification of trigger foods in individuals.

Our 96 General Food Panel is a quantitative ELISA analysis of specific IgG, IgG4 and IgA antibodies to 96 common foods and spices.

Specimen Stability	
DBS	30 days
Serum	30 days

Antibodies Tested:  
IgG, IgG4, and/or IgA

Sample Requirements		
	DBS	Serum
IgG	4 circles	1ml
IgG4	6 circles	1ml
IgA	6 circles	1ml

### Dairy

Casein  
Cheddar Cheese  
Cow's Milk  
Goat's Milk  
Whey

### Fish/Shellfish

Clam  
Cod  
Crab  
Halibut  
Lobster  
Salmon  
Scallop  
Shrimp  
Sole  
Trout  
Tuna

### Grains/Legumes/Nuts

Almond  
Barley  
Buckwheat  
Chestnut  
Chickpea  
Coconut  
Corn  
Gliadin  
Gluten  
Green Bean  
Green Pea  
Hazelnut  
Kidney Bean  
Lentil  
Lima Bean  
Oat  
Peanut  
Pecan  
Pinto Bean  
Rye  
Soybean  
Spelt  
Walnut  
Wheat

White Rice

### Fruits

Apple  
Apricot  
Banana  
Blueberry  
Cranberry  
Grape  
Grapefruit  
Lemon  
Olive  
Orange  
Papaya  
Peach  
Pear  
Pineapple  
Plum  
Raspberry  
Strawberry

### Meat/Poultry

Beef  
Chicken  
Lamb  
Pork  
Turkey

### Egg

Chicken Egg White  
Chicken Egg Yolk  
Duck Egg Whole

### Misc/Herbs/Spices

Baker's / Brewer's Yeast  
Button Mushroom  
Cane Sugar  
Cocoa Bean (Chocolate)  
Coffee Bean  
Flaxseed  
Ginger  
Honey  
Oregano  
Sesame Seed  
Sunflower Seed

### Vegetables

Asparagus  
Avocado  
Beet  
Broccoli / Brussel Sprouts  
Cabbage  
Carrot  
Cauliflower  
Celery  
Cucumber  
Garlic  
Green Bell Pepper  
Lettuce  
Onion  
Pumpkin  
Spinach  
Sweet Potato  
Tomato  
White Potato

### Candida Screen

Candida albicans

# 144 FOOD PANEL

Specimen Type: Dried Blood Spot or Serum

Sometimes 96 foods just isn't enough...

Our 144 Food Panel is an expanded version of the 96 General Food Panel. It includes the foods listed on the right in addition to the foods tested in the 96 General Food Panel.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	5 circles	1ml
IgG4	8 circles	1ml
IgA	8 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

## Fish/Shellfish

Anchovy  
Catfish  
Mackerel  
Mussel  
Octopus  
Oyster  
Red Snapper  
Sardine  
Squid  
Tilapia

## Fruits

Cantaloupe  
Cherry  
Date  
Fig  
Guava  
Jackfruit  
Kiwi  
Lime  
Mango  
Persimmon  
Watermelon

## Grains/Legumes/Nuts

Brazil Nut  
Cashew Nut  
Macadamia Nut  
Malt  
Millet  
Pine Nut  
Pistachio Nut  
Quinoa

## Meat/Poultry

Duck  
Goose  
Rabbit

## Misc/Herbs/Spices

Basil  
Black Pepper  
Black Tea  
Chili Pepper  
Cinnamon  
Clove  
Coriander  
Curry Powder  
Fennel Seed  
Hops  
Mustard  
Parsley  
Peppermint  
Vanilla

## Vegetables

Artichoke  
Eggplant

# 240 FOOD PANEL

Specimen Type: Dried Blood Spot or Serum

It's not always the usual suspects...

Our 240 Food Panel is our most comprehensive food panel. It can help to identify both common and less obvious foods that may be contributing to inflammation. On the right are the additional foods tested with the food from the 144 Food Panel.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	7 circles	1ml
IgG4	11 circles	1ml
IgA	11 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

## Dairy

beta-Lactoglobulin  
Blue Cheese  
Buttermilk  
Cottage Cheese  
Cream Cheese  
Mozzarella Cheese  
Sheep's Milk  
Swiss Cheese  
Yogurt

## Meat/Poultry

Buffalo  
Venison

## Fish/Shellfish

Bass  
Carp  
Crayfish  
Eel  
Flounder  
Haddock  
Herring  
Perch  
Pike  
Sea Urchin

## Fruits

Blackberry  
Black/Red currant  
Elderberry  
Gogiberry  
Gooseberry  
Honeydew  
Kumquat/Cumquat  
Lychee/Litchi  
Mangosteen  
Monk fruit  
Mulberry  
Passion fruit  
Pomegranate  
Prune  
Tangerine

## Vegetables

Arrowroot  
Bamboo Shoot  
Burdock Root  
Chard  
Chives  
Endive  
Horseradish  
Kale  
Kelp  
Kohlrabi  
Leek  
Lotus Root  
Okra  
Radish / Daikon  
Rhubarb  
Squash  
Turnip  
Wasabi  
Zucchini Squash

## Grains/Legumes/Nuts

Adzuki Bean / Red Bean  
Amaranth  
Black-Eyed Pea  
Brown Rice  
Canola Seed  
Chia Seed  
Cola Nut / Kola Nut  
Fava bean  
Fenugreek Seed  
Malt  
Millet  
Mung Bean  
Navy Bean /White Bean  
Poppy Seed  
Pumkin Seed  
Safflower Seed  
Sorghum  
Teff  
Wheatgerm agglutinin (lectin)

## Misc/Herbs/Spices

Allspice  
Aloe Vera  
Anise  
Caraway seed  
Ginseng  
Green Tea  
Hemp  
Shiitake Mushroom  
Stevia  
Sugar, Maple  
Sweet Marjoram  
Yerba Mate

## Candida Screen

Candida Albicans

# 96 ASIAN FOOD PANEL

Specimen Type: Dried Blood Spot or Serum

We've incorporated the food staples of Asia...

Our 96 Asian Food Panel is a quantitative ELISA analysis of specific IgG, IgG4 and IgA antibodies to 96 of the most common foods and spices in an Asian diet.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	5 circles	1ml
IgG4	8 circles	1ml
IgA	8 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

## Dairy

Casein  
Cheddar Cheese  
Cow's Milk  
Goat's Milk  
Whey

## Fish/Shellfish

Anchovy  
Clam  
Cod  
Crab  
Halibut  
Lobster  
Mussel  
Octopus  
Oyster  
Red Snapper  
Salmon  
Sardine  
Scallop  
Shrimp  
Sole  
Squid  
Tilapia

Tuna

## Fruits

Apple  
Apricot  
Banana  
Cantaloupe  
Cherry  
Grape  
Grapefruit  
Guava  
Jackfruit  
Kiwi  
Lemon  
Mango  
Olive  
Orange  
Papaya  
Peach  
Pear  
Persimmon  
Pineapple  
Strawberry  
Watermelon

## Grains/Legumes/Nuts

Almond  
Barley  
Buckwheat  
Cashew Nut  
Chestnut  
Chickpea  
Coconut  
Corn  
Gliadin  
Gluten  
Green Bean  
Green Pea  
Kidney Bean  
Lentil  
Lima Bean  
Millet  
Oat  
Peanut  
Pine Nut  
Pistachio Nut  
Rye  
Soybean  
Walnut  
Wheat

White Rice

## Meat/Poultry

Beef  
Chicken  
Duck  
Goose  
Lamb  
Pork

## Egg

Chicken Egg White  
Chicken Egg Yolk  
Duck Egg Whole

## Misc/Herbs/Spices

Baker's / Brewer's Yeast  
Basil  
Black Pepper  
Black Tea  
Button Mushroom  
Cane Sugar  
Cinnamon  
Chili Pepper  
Cocoa Bean (Chocolate)  
Coffee Bean  
Coriander  
Curry Powder  
Ginger  
Honey  
Mustard  
Sesame Seed  
Sunflower Seed  
Vanilla

## Vegetables

Avocado  
Beet  
Broccoli / Brussel Sprouts  
Cabbage  
Carrot  
Cauliflower  
Celery  
Cucumber  
Eggplant  
Garlic  
Green Bell Pepper  
Lettuce  
Onion  
Pumpkin  
Spinach  
Sweet Potato  
Tomato  
White Potato

## 96 JAPANESE FOOD PANEL

*Specimen Type: Dried Blood Spot or Serum*

A specialized panel designed for a Japanese diet.

Our 96 Japanese Food Panel is a quantitative ELISA analysis of specific IgG, IgG4 and IgA antibodies to 96 of the most common foods and spices in a typical Japanese diet.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	5 circles	1ml
IgG4	8 circles	1ml
IgA	8 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

### Dairy

Casein  
Cheddar Cheese  
Cow's Milk  
Whey

### Fish/Shellfish

Clam  
Cod  
Crab  
Halibut  
Mackerel  
Octopus  
Oyster  
Red Snapper  
Salmon  
Sardine  
Scallop  
Shrimp  
Squid  
Tuna

### Fruits

Apple  
Apricot  
Banana  
Blueberry  
Cantaloupe  
Cherry  
Fig  
Grape  
Grapefruit  
Kiwi  
Lemon  
Mango  
Olive  
Orange  
Peach  
Pear  
Persimmon  
Pineapple  
Plum  
Strawberry  
Watermelon

### Grains/Legumes/Nuts

Almond  
Barley  
Buckwheat  
Cashew Nut  
Chestnut  
Coconut  
Corn  
Gluten  
Green Bean  
Green Pea  
Kidney Bean  
Macadamia Nut  
Malt  
Millet  
Oat  
Peanut  
Pistachio Nut  
Rye  
Soybean  
Spelt  
Walnut  
Wheat  
White Rice

### Meat/Poultry

Beef  
Chicken  
Duck  
Lamb  
Pork

### Egg

Chicken Egg White  
Chicken Egg Yolk  
Duck Egg Whole

### Misc/Herbs/Spices

Baker's / Brewer's Yeast  
Basil  
Black Pepper  
Black Tea  
Button Mushroom  
Cane Sugar  
Chili Pepper  
Cinnamon  
Cocoa Bean (Chocolate)  
Coffee Bean  
Coriander  
Curry Powder  
Ginger  
Honey  
Hops  
Mustard  
Parsley  
Peppermint  
Sesame Seed  
Vanilla

### Vegetables

Asparagus  
Avocado  
Beet  
Broccoli / Brussel Sprouts  
Cabbage  
Carrot  
Cauliflower  
Celery  
Cucumber  
Eggplant  
Garlic  
Green Bell Pepper  
Lettuce  
Onion  
Pumpkin  
Spinach  
Sweet Potato  
Tomato  
White Potato

# 96 MEXICAN FOOD PANEL

Specimen Type: Dried Blood Spot or Serum

We've covered the essential ingredients in Mexican cuisine...

Our 96 Mexican Food Panel is a quantitative ELISA analysis of specific IgG, IgG4 and IgA antibodies to 96 of the most common foods and spices in a typical Mexican diet.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	5 circles	1ml
IgG4	8 circles	1ml
IgA	8 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

## Dairy

Casein  
Cow's Milk  
Goat's Milk  
Whey

## Fish/Shellfish

Clam  
Crab  
Octopus  
Red Snapper  
Salmon  
Sardine  
Shrimp  
Sole  
Tilapia  
Trout  
Tuna

## Fruits

Apple  
Banana  
Blueberry  
Cantaloupe  
Cranberry  
Date  
Fig  
Grape  
Grapefruit  
Guava  
Kiwi  
Lemon  
Lime  
Mango  
Olive  
Orange  
Papaya  
Peach  
Pear  
Pineapple  
Plum  
Raspberry  
Strawberry  
Watermelon

## Grains/Legumes/Nuts

Almond  
Barley  
Buckwheat  
Cashew Nut  
Chickpea  
Coconut  
Corn  
Gluten  
Green Bean  
Green Pea  
Hazelnut  
Lentil  
Lima Bean  
Macadamia Nut  
Malt  
Oat  
Peanut  
Pecan  
Pine Nut  
Pinto Bean  
Pistachio Nut  
Quinoa  
Rye  
Soybean

White Rice

## Meat/Poultry

Beef  
Chicken  
Duck  
Goose  
Lamb  
Pork  
Turkey

## Egg

Chicken Egg White  
Chicken Egg Yolk

## Misc/Herbs/Spices

Baker's / Brewer's Yeast  
Black Pepper  
Black Tea  
Button Mushroom  
Cane Sugar  
Chili Pepper  
Cinnamon  
Cocoa Bean (Chocolate)  
Coffee Bean  
Coriander  
Flaxseed  
Ginger  
Honey  
Mustard  
Parsley  
Peppermint  
Sesame Seed  
Sunflower Seed  
Vanilla

## Vegetables

Artichoke  
Asparagus  
Avocado  
Beet  
Broccoli / Brussel Sprouts  
Cabbage  
Carrot  
Cauliflower  
Celery  
Cucumber  
Eggplant  
Garlic  
Green Bell Pepper  
Lettuce  
Onion  
Pumpkin  
Spinach  
Sweet Potato  
Tomato  
White Potato

## Candida Screen

Candida albicans



## 96 VEGETARIAN FOOD PANEL

*Specimen Type: Dried Blood Spot or Serum*

No meat? No problem.

Our 96 Vegetarian Food Panel is a quantitative ELISA analysis of specific IgG, IgG4 and IgA antibodies to 96 foods and spices common in a vegetarian diet.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	5 circles	1ml
IgG4	8 circles	1ml
IgA	8 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

### Dairy

Casein  
Cheddar Cheese  
Cow's Milk  
Goat's Milk  
Whey

### Fruits

Apple  
Apricot  
Banana  
Blueberry  
Cantaloupe  
Cherry  
Cranberry  
Date  
Grape  
Grapefruit  
Jackfruit  
Kiwi  
Lemon  
Mango  
Olive

Orange  
Papaya  
Peach  
Pear  
Persimmon  
Pineapple  
Plum  
Raspberry  
Strawberry  
Watermelon

### Grains/Legumes/Nuts

Almond  
Barley  
Buckwheat  
Cashew Nut  
Chickpea  
Coconut  
Corn  
Gliadin  
Gluten  
Green Bean  
Green Pea  
Hazelnut  
Kidney Bean  
Lentil  
Lima Bean  
Millet  
Oat  
Peanut  
Pecan  
Pine Nut  
Pinto bean  
Pistachio Nut

Quinoa  
Rye  
Soybean  
Spelt  
Walnut  
Wheat  
White Rice

### Egg

Chicken Egg White  
Chicken Egg Yolk  
Duck Egg Whole

### Misc/Herbs/Spices

Baker's / Brewer's Yeast  
Basil  
Black Pepper  
Button Mushroom  
Cane Sugar  
Chili Pepper  
Cocoa Bean (Chocolate)  
Coffee Bean  
Curry Powder  
Flaxseed  
Ginger  
Honey  
Oregano  
Sesame Seed  
Sunflower Seed

### Vegetables

Artichoke  
Asparagus  
Avocado  
Beet  
Broccoli /Brussel Sprouts  
Cabbage  
Carrot  
Cauliflower  
Celery  
Cucumber  
Eggplant  
Garlic  
Green Bell Pepper  
Lettuce  
Onion  
Pumpkin  
Spinach  
Sweet Potato  
Tomato  
White Potato

# 198 VEGETARIAN FOOD PANEL

Specimen Type: Dried Blood Spot or Serum

Our 168 Vegetarian Food Panel is a quantitative ELISA analysis of specific IgG, IgA, and/or IgG4 antibodies to 168 common vegetarian foods and spices. On the right are the additional foods tested with the food from the 96 Vegetarian Food Panel.

This test can be ordered independently or bundled with any IgG/IgA food panels for more comprehensive information.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	7 circles	1ml
IgG4	11 circles	1ml
IgA	11 circles	1ml

Antibodies Tested:  
IgG, IgG4, and/or IgA

## Dairy

beta-Lactoglobuli  
Blue Cheese  
Buttermilk  
Casein  
Cheddar Cheese  
Cottage Cheese  
Cows Milk  
Chream Cheese  
Goat's Milk  
Mozzarella Cheese  
Sheep's Milk  
Swiss Cheese  
Whey  
Yogurt

## Fruits

Apple  
Apricot  
Banana  
Blackberry  
Black/Red Currant  
Blueberry  
Cantaloupe  
Cherry  
Cranberry  
Date  
Dlderberry

## Fig

Gogiberry  
Gooseberry  
Grape  
Guava  
Honeydew  
Jackfruit  
Lime  
Lychee/Litchi  
Mango  
Mangosteen  
Monk Fruit  
Mulberry  
Olive  
Orange  
Papaya  
Passion Fruit  
Peach  
Pear  
Persimmon  
Pineapple  
Plum  
Pomegranate  
Prune  
Raspberry  
Strawberry  
Tangerine  
Watermelon

## Grains/Legumes/Nuts

Adzuki Bean / Red Bean  
Almond  
Amaranth  
Barley  
Black-Eyed Pea  
Bran  
Brazil Nut  
Brown Rice  
Buckwheat  
Canola Seed  
Cashew Nut  
Chestnut  
Chia Seed  
Chickapea  
Coconut  
Cola Nut / Kola Nut  
Corn  
Favabean  
Fenugreek Seeds  
Gingko Nut  
Gliadin  
Gluten  
Green Bean  
Macadamia Nut  
Malt  
Millet  
Mung Bean

Navy Bean / White Bean  
Oat  
Peanut  
Pine Nut  
Pinto Bean  
Pistachio Nut  
Poppy Seed  
Safflower Seed  
Sorghum  
Soybean  
Spelt  
Teff  
Walnut  
Wheat  
Wheat germ Agglutinin  
White Rice

## Herbs/Spices

Allspice  
Anise  
Basil  
Bay Leaf  
Black Pepper  
Caraway Seed  
Chili Pepper  
Cinnamon  
Clove  
Coriander

Curry Powder  
Dill  
Fennel Seed  
Ginger  
Licorice  
Mustard  
Oregano  
Paprika  
Parsley  
Peppermint  
Rosemary  
Sage  
Sweet Marjoram  
Tarragon  
Thyme  
Turmeric  
Vanilla  
Yerba Mate

## Vegetables

Artichoke  
Arrowroot  
Asparagus  
Avocado  
Bamboo Shoot  
Beet  
Broccoli / Brussel Sprouts  
Burdock Root

Cabbage  
Carrot  
Cauliflower  
Celery  
Chard  
Chive  
Cucumber  
Eggplant  
Endive  
Garlic  
Green Bell Pepper  
Horseradish  
Kale  
Kelp  
Kohlrabi  
Leek  
Lettuce  
Lotus Root  
Okra  
Onion  
Pumpkin  
Radish / Daikon  
Rhubarb  
Spinach  
Squash  
Sweet Potato  
Tomato  
Turnip

Wasabi  
White Potato  
Zucchini Squash

## Egg

Egg White, Chicken  
Egg Whole, Duck  
Egg Yolk, Chicken

## Misc.

Aloe Vera  
Baker's / Brewer's Yeast  
Black Tea  
Button Mushroom  
Cane Sugar  
Cocoa Bean (Chocolate)  
Coffee Bean  
Flaxseed  
Ginseng  
Green Tea  
Hemp  
Honey  
Hops  
Sesame Seed  
Shiitake Mushroom  
Stevia  
Sugar, Maple  
Sunflower Seed

# FOOD ALLERGY TESTING

Food allergies are recognized to trigger adverse reactions such as skin conditions, GI problems, anaphylaxis, and more. With proper identification and elimination of the offending foods many experiences symptom relief and reaction evasion. Our IgE antibody panels serve as a useful tool in the identification of triggering foods in individuals.

## 27 IgE FOOD PANEL

Antibodies Tested: IgE

*Specimen Type: Serum*

Our 27 IgE Food Panel assesses IgE response to 27 foods, carefully selected for their potential reactivity and their relevance to modern diets. Total IgE is included.

This test can be ordered independently or bundled with any IgG/IgG4/IgA food panels for more comprehensive information.

### Specimen Stability

Serum	14 days
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### Sample Requirements

3ml
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## 44 IgE FOOD PANEL

Antibodies Tested: IgE

*Specimen Type: Dried Blood Spot or Serum*

Our 44 IgE Food Panel assesses IgE response to 44 foods, carefully selected for their potential reactivity and their relevance to modern diets.

This test can be ordered independently or bundled with any IgG/IgG4/IgA food panels for more comprehensive information.

### Dairy

Alpha Lactalbumin  
Beta Lactalbumin  
Casein  
Cheddar Cheese  
Cow's Milk  
Goat Cheese  
Goat Milk

### Meat/Poultry/Egg

Beef  
Chicken  
Chicken Egg White  
Chicken Egg Yolk  
Ovalbumin  
Ovomucoid  
Pork

### Fish/Shellfish

Blue Mussel  
Cod  
Pacific Sardine  
Salmon  
Shrimp  
Tuna

### Fruits

Apple  
Banana  
Lemon  
Orange  
Pineapple  
Strawberry

### Vegetables

Carrot  
Tomato  
White Potato

### Grains/Legumes/Nuts

Almond  
Barley  
Corn  
Gluten  
Hazelnut  
Oat  
Peanut  
Rice  
Rye  
Soybean  
Walnut  
Wheat

### Miscellaneous

Baker's Yeast  
Brewer's Yeast  
Chocolate

## 50 IgE FOOD PANEL

Antibodies Tested: IgE

*Specimen Type: Serum*

Our 50 IgE Food Panel assesses IgE response to 50 foods. Total IgE is included.

This test can be ordered independently or bundled with any IgG/IgG4/IgA food panels for more comprehensive information.

### Dairy

Alpha Lactalbumin  
Beta Lactoglobulin  
Casein  
Cow's Milk  
Mold Type Cheese

### Fish/Shellfish

Blue Mussel  
Clam  
Cod  
Crab  
Salmon  
Shrimp  
Tuna

### Fruits

Apple  
Banana  
Blueberry  
Kiwi  
Mango  
Orange

Peach  
Pineapple  
Strawberry

### Grains/Legumes/Nuts

Almond  
Brazil Nut  
Buckwheat  
Coconut  
Corn  
Gluten  
Green Pea  
Hazelnut  
Oat  
Peanut  
Rice  
Soybean  
Wheat  
White Bean

### Meat/Poultry

Beef  
Chicken  
Lamb  
Pork

### Egg

Chicken Egg White

### Miscellaneous

Baker's Yeast  
Sesame Seed  
Sugar Cane

### Vegetables

Avocado  
Carrot  
Celery  
Garlic  
Lettuce  
Tomato  
White Potato

### Specimen Stability

Serum	14 days
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### Sample Requirements

1ml
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### Specimen Stability

Serum	14 days
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### Sample Requirements

4ml
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# 96 IgE FOOD PANEL

Specimen Type: Serum

Our 96 IgE Food Panel assesses IgE response to 96 foods to give you a more comprehensive evaluation of the most allergenic foods. Total IgE is included.

This test can be ordered independently or bundled with any IgG/IgG4/IgA food panels for more comprehensive information.

We run all IgE panels on a sophisticated FDA-approved immunoassay analyzer that utilizes enzyme-amplified chemiluminescence technology. Chemiluminescence provides lower detection limits than conventional ELISA, making it particularly suitable for IgE detection.

Specimen Stability		Sample Requirements
Serum	14 days	6ml

Antibodies Tested: IgE

## Dairy

Alpha Lactalbumin  
Beta Lactoglobulin  
Casein  
Cheddar Cheese  
Cow's Milk  
Mold Type Cheese  
Whey  
Yogurt

## Fish/Shellfish

Blue Mussel  
Clam  
Cod  
Crab  
Halibut  
Lobster  
Oyster  
Salmon  
Scallop  
Shrimp  
Sole  
Trout  
Tuna

## Fruits

Apple  
Apricot  
Banana  
Blueberry  
Grape  
Grapefruit  
Kiwi  
Lemon  
Mango  
Melon  
Orange  
Peach  
Pear  
Pineapple  
Plum  
Strawberry  
Watermelon

## Grains/Legumes/Nuts

Almond  
Barley  
Brazil Nut  
Buckwheat  
Chestnut  
Coconut  
Corn  
Gluten  
Green Bean  
Green Pea  
Hazelnut  
Kidney Bean  
Lima Bean  
Oat  
Peanut  
Pecan  
Pinto Bean  
Pistachio Nut  
Rice  
Rye  
Soybean  
Walnut  
Wheat  
White Bean

## Meat/Poultry

Beef  
Chicken  
Lamb  
Pork  
Turkey

## Egg

Chicken Egg White  
Chicken Egg Yolk

## Misc/Herbs/Spices

Baker's Yeast  
Chocolate  
Coffee Bean  
Ginger  
Mushroom  
Oregano  
Parsley  
Sesame Seed  
Sugar Cane  
Vanilla

## Vegetables

Asparagus  
Avocado  
Broccoli  
Cabbage  
Carrot  
Cauliflower  
Celery  
Cucumber  
Garlic  
Green Pepper  
Lettuce  
Onion  
Pumpkin  
Spinach  
Sweet Potato  
Tomato  
White Potato

# AEROALLERGENS

## 48 INHALANT PANEL

*Specimen Type: Dried Blood Spot or Serum*

Our 48-inhalant panel is a quantitative ELISA analysis of specific IgG, IgG4, or IgA antibodies to 48 common airborne allergens.

Specimen Stability	
DBS	30 days
Serum	30 days

Sample Requirements		
	DBS	Serum
IgG	2 circles	1ml
IgG4	4 circles	1ml
IgA	4 circles	1ml

Antibodies Tested:  
IgG, IgG4, and /or IgA

### Grasses

Bermuda Grass  
Brome Grass  
Johnson Grass  
Kentucky Blue Grass  
Orchard Grass  
Perennial Rye Grass  
Sweet Vernal Grass  
Timothy Grass

### Miscellaneous

Cat Dander  
Dog Dander  
Dust Mite - D. farinae  
Dust Mite - D. pteronyssinus  
German Cockroach  
Latex

### Molds

Alternaria tenuis/alternata  
Aspergillus fumigatus  
Cladosporium herbarum  
Penicillium notatum

### Trees

Acacia  
American Beech  
American Elm  
American Hazelnut  
Box Elder  
Cottonwood  
European White Birch  
Grey Alder  
Hickory  
Italian Cypress  
Mesquite  
Mountain Cedar (Juniper)  
Pecan  
Walnut  
White Ash  
White Mulberry  
White Oak  
White Pine

### Weeds

Cocklebur  
Common Ragweed  
English Plantain  
Firebush  
Lamb's Quarters  
Mugwort  
Nettle  
Pigweed  
Rough Marshelder  
Russian Thistle  
Sheep Sorrel  
Wormwood

# 33 INHALANT IgE PANEL

*Specimen Type: Dried Blood Spot or Serum*

Aeroallergens from trees, grasses, mold, dust, and others can produce symptoms that range from minor to severe in affected individuals. Our 50 Inhalant IgE Panel assesses antibody response to 50 airborne allergens, providing helpful information for effective allergy management.

Specimen Stability	
Serum	14 days

Sample Requirements
1ml

Antibodies Tested: IgE

## Grasses

Bermuda Grass  
Cultivated Oat  
Johnson Grass  
Perennial Rye Grass

## Miscellaneous

Cat Dander  
Cockroach  
Cow Dander  
Dog Dander  
Dust Mite - D. farinae  
Dust Mite - D. pteronyssinus  
Horse Dander  
House Dust

## Molds

Alternaria tenuis/alternata  
Aspergillus fumigatus  
Candida albicans  
Cladosporium herbarum  
Penicillium notatum

## Trees

Acacia  
Birch  
Cottonwood  
Oak  
Poplar  
Privet  
White Ash

## Weeds

Dandelion  
False Ragweed  
Lamb's Quarters  
Lenscale  
Mugwort  
Rough Pigweed  
Russian Thistle  
Sheep Sorrel

## CCD Marker

Cross-Reactive  
Carbohydrate Determinants

# 50 INHALANT IgE PANEL

Specimen Type: Serum

Our 50 Inhalant IgE Panel assesses antibody response to 50 airborne allergens, providing helpful information for effective allergy management.

We run all IgE panels on a sophisticated FDA-approved immunoassay analyzer that utilizes enzyme-amplified chemiluminescence technology. Chemiluminescence provides lower detection limits than conventional ELISA, making it particularly suitable for IgE detection.

Specimen Stability	
Serum	14 days

Sample Requirements
4ml

Antibodies Tested: IgE

## Grasses

Bahia Grass  
Bermuda Grass  
Common Reed Grass  
Cultivated Rye Grass  
Johnson Grass  
June Grass (Kentucky Blue)  
Meadow Fescue  
Orchard Grass  
Perennial Rye Grass  
Sweet Vernal Grass  
Timothy Grass  
Velvet Grass

## Miscellaneous

Cat Dander  
Cockroach  
Cow Dander  
Dog Dander  
Dust Mite - D. farinae  
Dust Mite - D. pteronyssinus  
Horse Dander  
House Dust

## Molds

Alternaria tenuis/alternata  
Aspergillus fumigatus  
Candida albicans  
Cladosporium herbarum  
Penicillium notatum

## Trees

Acacia  
Alder  
Beech  
Birch  
Cottonwood  
Elm  
Eucalyptus  
Hazelnut  
Maple  
Melaleuca  
Oak  
Olive  
Sycamore  
Walnut  
White Pine  
Willow

## Weeds

Common Ragweed  
Dandelion  
English Plantain  
Goldenrod  
Lamb's Quarters  
Mugwort  
Nettle  
Rough Marsh Elder  
Russian Thistle



# 15 MOLD IgE

Specimen Type: Serum

Airborne exposure to molds has been known to cause allergic symptoms in sensitive individuals, including coughing, sneezing, asthma, and skin rashes. Our Mold Panel tests IgE antibody response to 15 common molds.

Specimen Stability	
Serum	14 days

Sample Requirements
3ml

Alternaria tenuis  
Aspergillus fumigatus  
Candida albicans  
Cladosporium herbarum  
Curvularia lunata  
Epicoccum purpurascens  
Fusarium monoliforme  
Helminthosporium halodes  
Mucor racemosus  
Penicillium notatum  
Phoma betae  
Pityrosporum orbiculare  
Rhizopus nigricans  
Stemphylium botryosum  
Trichoderma viride

# TOTAL IgE

Specimen Type: Serum

Our Total IgE test is useful on its own or in combination with an IgG, IgG4, or IgA antibody assessment as an overall indicator of IgE levels. Elevated levels of the antibody has been tied to allergic response.

This measurement is included in all IgE food and aeroallergen panels.

Specimen Stability	
Serum	14 days

Sample Requirements
1ml

# VITAMIN D (TOTAL, 25-HYDROXY D2 AND D3)

Specimen Type: Dried Blood Spot or Serum

Vitamin D is crucial for bone strength and appropriate levels can help address medical conditions including osteoporosis, cancer, multiple sclerosis, and type 1 and type 2 diabetes. Our test measures the levels of vitamin D in the blood.

Specimen Stability	
DBS	60 days
Serum	60 days

Sample Requirements	
DBS	Serum
4 circles	1ml

# COMPREHENSIVE ALLERGY TESTING

Comprehensive Allergy Testing assesses the whole extract and specific IgE components of markers. Whole extracts are used because a patient can potentially be allergic to any component of the whole extract. The inclusion of specific IgE components helps predict the likelihood of anaphylaxis and minimizes the risk of IgE reactions from cross-reacting foods.

## 295 FOOD & INHALANT IGE PANEL

*Specimen Type: Serum, Microtainer*

Since the structure and cross-reactivity of specific IgE (sIgE) components are known, the use of our 295 IgE Panel can help unravel cross-reactivity in complex, multi-sensitized patients.

While there are multiple forms of treatment for IgE allergies, food avoidance and allergy immunotherapy (AIT) are front-line therapies that can be supported by the 295 IgE profile and its unique blend of whole extract allergens and specific IgE components.

The 295 Food & Inhalant IgE Panel Combines the markers from the 158 Food IgE Panel and the 140 Inhalant IgE Panel.

Specimen Stability	
Serum	14 days
Microtainer	7 Days

Specimen Requirements	
Serum	1 ml
Microtainer	0.6 ml

# 158 FOOD IGE PANEL

Specimen Type: Serum, Microtainer

The 158 Foods IgE Panel provides an assessment of whole extract and specific IgE components. Whole extracts are used because a patient can potentially be allergic to any component of the whole extract. The inclusion of specific IgE components helps predict the likelihood of anaphylaxis and minimizes the risk of IgE reactions from cross-reacting foods.

Specimen Stability	
Mictotainer	7 days
Serum	14 days

Sample Requirements	
Microtainer	Serum
0.6 ml	1 ml

## Dairy

Alpha lactalbumin  
Beta Lactoglobulin  
Camel’s Milk  
Casein  
Cow’s Milk  
Goat’s Milk  
Mare’s Milk  
Sheep’s Milk

## Fish/Shellfish

A. simplex (parasite) rAni s 1  
A. simplex (parasite) rAni s 3  
Atlantic cod nGad m 1  
Atlantic cod nGad m 2&3  
Atlantic herring  
Atlantic herring rClu h 1  
Atlantic makerel  
Atlantic makerel rSco s 1  
Atlantic salmon rSal s 1  
Black Tiger shrimp rPen m 1  
Black Tiger shrimp rPen m 2  
Black Tiger shrimp rPen m 3  
Black Tiger shrimp rPen m 4  
Blue Mussel  
Brown shrimp  
Carp

Clam  
Cod  
Crab  
Lobster  
Northern prawn  
Oyster  
Salmon  
Scallop  
Shrimp  
Squid  
Swordfish  
Thornback ray  
rRaj c parvalbumin  
Thornback ray  
Tuna  
Tuna Thu a 1

## Fruits

Apple rMal d 1  
Apple rMal d 2  
Apple rMal d 3  
Avocado  
Banana  
Blueberry  
Cherry  
Fig  
Grape

Kiwi nAct d 1  
Kiwi nAct d 10  
Kiwi nAct d 2  
Kiwi nAct d 5  
Mango  
Muskmelon  
Orange  
Papaya  
Peach  
Pear  
Strawberry

## Vegetables

Carrot  
Carrot rDau c 1  
Celery (A. graveolens) rApi g 1  
Celery (A. graveolens) RApi g 2  
Celery (A. graveolens) rApi g 6  
Garlic (A. sativum)  
Onion (A. cepa)  
Tomato  
Tomato rSola l 6  
White Potato

## Grains

Barley  
Buckwheat (kasha)

Buckwheat (kasha) nFag e 2  
Chickpea  
Corn  
Corn rZea m 14  
Green Bean  
Green Pea  
Lentil  
Millet  
Oat  
Quinoa  
Rice  
Rye  
Soy rGly m 4  
Soy rGly m 5  
Soy rGly m 6  
Soy rFly m 8  
Spelt  
wheat nTri a aA\_Ti  
Wheat rTri a 14  
Wheat rTri a 19

## Nuts

Almond  
Brazil Nut  
Brazil Nut rBer e 1  
Cashew Nut  
Cashew Nut rAna o 2

Cashew Nut rAna o 3  
Hazelnut nCor a 11  
Hazelnut nCor a 9  
Hazelnut nCor a 9  
Hazelnut rCor a 1.0401  
Hazelnut rCor a 14  
Hazelnut rCor a 8  
Macadamia Nut  
Macadamia nut nMac i 2s  
Peanut nAra h 1  
Peanut nAra h 15  
Peanut nAra h 2  
Peanut nAra h 3  
Peanut nAra h 6  
Peanut nAra h 8  
Peanut nAra h 9  
Pecan  
Pistachio rPis v 1  
Pistachio rPis v 2  
Pistachio rPis v 3  
Walnut nJug r 1  
Walnut nJug r 2  
Walnut nJug r 3  
Walnut nJug r 4  
Walnut nJug r 6

## Seeds

Fenugreek seeds  
Hemp  
Hemp (CBD)  
Lupine seed  
Poppy seed  
Poppy seed nPap s 2S  
Pumpkin seed  
Sesame nSes i 1  
Sesame Seed  
Sunflower seed

## Meat/Poultry/Egg

Beef  
BeefnBos d 6  
Chicken  
Chicken Egg White  
Chicken Egg Yolk  
Egg white nFal d 4  
Horse Meat  
House Cricket  
Lamb  
Mealworm  
Migratory Locust  
Ovalbumin (Eff White)  
Ovomucoid (Eff White)  
Ovotransferrin nGal d 3

Pork  
Pork rSus d 1  
Rabbit  
Turkey  
Yolk albumin nGal d 5

## Spices

Anise  
Caraway  
Mustard  
Mustard rSin a 1  
Oregano  
Paprika  
Parsley  
Parsley  
Sesame Seed  
Sugar Cane  
Vanilla

## Yeast

Baker’s Yeast (S. cerevisiae)

## Skin Yeasts

M.symphodialis rMala s 11  
M.symphodialis rMala s 5  
M.symphodialis rMala s 6

# 140 INHALANT IGE PANEL

Specimen Type: Serum, Microtainer

The 140 Inhalant IgE Panel provides an assessment of whole extract and specific IgE components. Whole extracts are used because a patient can potentially be allergic to any component of the whole extract. The inclusion of specific IgE components helps predict the likelihood of anaphylaxis and minimizes the risk of IgE reactions from cross-reacting foods.

Specimen Stability	
Mictotainer	7 days
Serum	14 days

Sample Requirements	
Microtainer	Serum
0.6 ml	1 ml

## Trees

Acacia  
Alder rAln g 1  
Alder rAln g 4  
Arizona cypress  
Ash  
Ash rFra e 1  
Beech  
Cottonwood  
Cypress  
Date palm  
Elm  
Hazel (C. avellana)  
Hazel rCor a 1.0103  
London planetree nPla a 2  
London planetree rPla a 1  
London planetree rPla a 3  
Mountain cedar  
Mulberry tree  
Olive nOle e 1  
Olive rOle e 9  
Paper mulberry  
Silver birch rBet v 1  
Silver birch rBet v 2  
Silver birch rBet v 6  
Sugi (Japanese Cedar) rCry j 1

Tree of heaven  
Walnut  
Weeping fig-  
(F. benjamina)

## Grasses

Bahia Grass  
Bermuda Grass  
Bermuda grass rCyn d 1  
Common Reed Grass  
Cultivated Rye Grass  
Perennial Rye Grass  
Timothy Grass rPhl p 1  
Timothy Grass rPhl p 12  
Timothy Grass rPhl p 2  
Timothy Grass rPhl p 5  
Timothy Grass rPhl p 6  
Timothy Grass rPhl p 7

## Weeds

Annual mercury  
Common Ragweed  
English Plantain  
Lamb’s quarter rChe a 1  
Lamb’s Quarters  
Mugwort

Mugwort rArt v 1.0101  
Mugwort rArt v 3.0201  
Nettle  
Ragweed rAmb a 1  
Ragweed rAmb a 4  
Ribwort plantain rPla l 1  
Rough Pigweed  
Russian Thistle  
Russian thistle rSal k 1  
Wall pellitory  
Wall pellitory rPar j 2

## CDC Marker

CCD (Hom s lactoferrin) rHoms LF

## Latex

BLatex (H. brasiliensis) rHev b 1  
Latex (H. brasiliensis) rHev b 11  
Latex (H. brasiliensis) rHev b 3  
Latex (H. brasiliensis) rHev b 5  
Latex (H. brasiliensis) rHev b 6.02

Latex (H. brasiliensis) rHev b 8

## Dander and Epithelia

Cat, dander nFel d 2

Cat, dander rFel d 1  
Cat, dander rFel d 4  
Cat, dander rFel d 7  
Cattle, dander  
Djungarian hamster, dander  
Dog, dander nCan f 3  
Dog, dander rCan f 1  
Dog, dander rCan f 2  
Dog, dander rCan f 4  
Dog, dander rCan f 6  
Dog, dander rCan f Fel d 1  
Dog, male urine (incl. Can f 5)  
Goat, dander  
Guinea pig, dander  
Horse, dander rEqu c 1  
Horse, dander rEqu c 3  
Horse, dander rEqu c 4  
Mouse, dander  
Pig, dander  
Rabbit, dander rOry c 1  
Rabbit, dander rOry c 2  
Rabbit, dander rOry c 3  
Rat, dander  
Sheep, dander

## Insect Venoms

Common wasp  
Common wasp rVes v 1  
Common wasp rVes v 5  
Fire ant  
Honey bee  
Honey bee nApi m 1  
Honey bee nApi m 10  
Long-headed wasp  
Paper wasp Pol d  
Paper wasp rPol d 5

## Mites

-American house dust mite (D.farina) rDer f 1  
-American house dust mite (D.farina) rDer f 1  
-European house dust mite (D.pteronysinus) rDer p 1  
-European house dust mite (D.pteronysinus) rDer p 10  
-European house dust mite (D.pteronysinus) rDer p 11  
-European house dust mite (D.pteronysinus) rDer p 2  
-European house dust mite

(D.pteronysinus) rDer p 21  
-European house dust mite (D.pteronysinus) rDer p 21  
-European house dust mite (D.pteronysinus) rDer p 23  
-European house dust mite (D.pteronysinus) rDer p 5  
-European house dust mite (D.pteronysinus) rDer p 7  
-Food mite (G. domesticus)  
-Grey flour mite (A. siro)  
-Mold mite (L. putrescentiae)  
-Mold mite (T. putrescentiae)  
rTyr p 2  
-Storage mite (L. destructor)  
-Tropical dust mite (B.tropicalis) rBlo t 10  
-Tropical dust mite (B.tropicalis) rBlo t 21  
-Tropical dust mite (B.tropicalis) rBlo t 5

**Spices**  
Anise  
Caraway  
Mustard  
Mustard rSin a 1

Oregano  
Paprika  
Parsley  
Parsley  
Sesame Seed  
Sugar Cane  
Vanilla

## Molds

A. fumigatus rAsp f 1  
A. fumigatus rAsp f 1  
A. fumigatus rAsp f 3  
A. fumigatus rAsp f 4  
Alternaria alternata rAlt a 1

## Insects

American cockroach  
American cockroach rPer a 7  
German cockroach rBla g 1  
German cockroach rBla g 2  
German cockroach rBla g 4  
German cockroach rBla g 5  
German cockroach rBla g 9  
Pigeon tick (A. reflexus)

# CANDIDA & CELIAC PANELS

## CANDIDA PANEL

*Specimen Type: Dried Blood Spot or Serum*

Our Candida Panel analyzes Candida antigen and IgG, IgA, and IgM antibodies specific to Candida to help identify an overgrowth of the fungus, suspected to be the underlying cause of a number of symptoms.

This test can be ordered independently or bundled with any IgG/ IgG4/IgA and/or IgE food panels for more comprehensive information.

Specimen Stability	
DBS	28 days
Serum	14 days

Sample Requirements	
DBS	Serum
3 circles	2ml

## CELIAC ANTIBODY PANEL

*Specimen Type: Serum*

Celiac disease, also known as gluten-sensitive enteropathy, or idiopathic sprue, is a hereditary response to gliadin, a protein present in wheat, rye, and barley grain. The immune reaction to the gluten protein sets off an inflammatory state that may cause diarrhea, abdominal cramping, flatulence, weight loss, fatigue, malaise, and other symptoms. Through proper screening and adherence to a gluten-free diet, affected individuals can find relief to these symptoms.

Our Celiac Antibody Panel is a semi-quantitative analysis that measures for serum tissue transglutaminase (tTG) IgA & IgG, in addition to IgA and IgG antibodies specific for deamidated gliadin peptide (DGP). These useful markers can help healthcare providers to identify untreated celiac disease or monitor compliance to a gluten-free diet.

Specimen Stability	
Serum	15 days

Sample Requirements
2 ml

# METABOLIC & TOXIN PROFILES

## ENVIRONMENTAL POLLUTANTS PROFILE

*Specimen Type: Dried Urine Card*

Our Environmental Pollutants Profile provides quantitative measurement of 14 select metabolites that can help define an individual's toxic burden and provide valuable information for a targeted nutritional and detoxification intervention.

### Specimen Stability

Dried Urine Card

14 days

### Sample Requirements

1 Card

Long-term exposure to many common chemicals in our environment is known or suspected to have serious health consequences.

Liquid Chromatography/Triple Quadrupole Mass Spectrometry (LC-MS/MS) instrumentation is used to quantitatively evaluate patient urine specimens for evidence of exposure to environmental pollutants.

### Xylene Exposure

2-Methylhippurate  
3-Methylhippurate

### Toluene Exposure

Benzoate  
Hippurate

### Benzene Exposure

t,t-Muconic Acid

### Trimethylbenzene Exposure

3,4-Dimethylhippurate

### Styrene Exposure

Mandelate  
Phenylglyoxylate  
Mandelate + Phenylglyoxylate

### Phthalate Exposure

Monoethyl Phthalate  
Phthalate  
Quinolate

### Paraben Exposure

Para-Hydroxybenzoate

### Methyl Tert-butyl Ether Exposure

Alpha-Hydroxyisobutyrate

# ORGANIC ACIDS PROFILE

Specimen Type: Dried Urine Card

Vitamin deficiencies and imbalances may produce a range of health issues, including fatigue, mood changes, digestive problems, and others. Our comprehensive organic acids profile measures 36 organic acids to create a unique patient biochemistry profile that reflects how well the body is obtaining and utilizing nutrients. A customized diet and lifestyle plan can then be established to address to specific nutritional needs.

Liquid Chromatography/ Triple Quadrupole Mass Spectrometry (LC-MS/MS) instrumentation is used to quantitatively evaluate patient urine specimens for metabolically-derived organic acids.

Specimen Stability		Sample Requirements
Dried Urine Card	14 days	1 Card

## Glycolysis Metabolites

Lactate  
Pyruvate

## Citric Acid Cycle Metabolites

Alpha-Ketoglutarate  
Citrate  
Cis-Aconitate  
Fumarate  
Isocitrate  
Malate  
Succinate

## Fatty Acid Oxidation

Adipate  
Ethylmalonate  
Methylsuccinate  
Suberate

## Ketone Metabolites

Alpha-Hydroxybutyrate  
Beta-Hydroxybutyrate

## Markers for Protein Metabolism

Alpha-Ketoisovalerate  
Alpha-Ketoisocaproate  
Alpha-Keto-Beta-Methylvalerate  
Beta-Hydroxyisovalerate  
Hydroxymethylglutarate  
Methylmalonate

## Markers of Neurotransmitter Metabolism

5-Hydroxyindoleacetate  
Homovanillate  
Kynurenate  
Vanilmandelate  
Quinolinate

## Markers of Detoxification

Benzoate  
Orotate  
Hippurate  
Para-Hydroxyphenyllactate  
Pyroglutamate

## Markers of Bacterial Metabolism

2-Hydroxyphenylacetate  
3-Indoleacetate  
Para-Hydroxybenzoate  
Para-Hydroxyphenylacetate  
Tricarballylate

## MYCOTOXIN PROFILE

*Specimen Type: Liquid Urine Sample*

The MycoToxin Panel tests for 16 of the most common mycotoxins emitted by 300 varieties of molds providing insights into potential mold toxicity.

The Mycotoxin Panel is run using Enzyme-Linked Immunosorbent Assay (ELISA). An established immunological technique, ELISA is widely used to detect the presence of specific toxins in a patient's urine.

Specimen Stability	
Liquid Urine Sample	7 days

Sample Requirements	
Liquid Urine Sample	7 ml

Mycotoxins are toxic metabolites naturally produced by fungal organisms (molds). Mycotoxins are well-known and growing in popularity thanks to their harmful effect on human cells, causing cellular dysfunctions associated with various symptoms and diseases..

The ELISA method detects mycotoxins that have been structurally modified within the body providing more accurate results than similar testing run through mass spectrometry.

### **Aflatoxins**

Aflatoxin B1  
Aflatoxin B2  
Aflatoxin G1  
Aflatoxin G2

### **Trichothecenes**

Stratoxin G  
Stratoxin H  
Isosatratoxin F  
Roridin A  
Roridin E  
Roridin H  
Roridin L-2  
Verrucarin J  
Verrucarin A

### **Other Mycotoxins**

Gliotoxin  
Ochratoxin A (OTA)  
Zearalenone (ZEA)





# MOE-TOX COMPLETE PROFILE

## Specimen Type: Liquid Urine & Dried Urine Card

The MOE-Tox Complete Profile combines the markers of the Organic Acids Profile, Environmental Pollutants Profile, and the MycoToxin Panel into one comprehensive report to provide a complete snapshot of a patient’s mitochondrial function and toxic burden.

The Mycotoxin Panel is run using Enzyme-Linked Immunosorbent Assay (ELISA). An established immunological technique, ELISA is widely used to detect the presence of specific antibodies or antigens in a patient’s blood.

The ELISA method detects mycotoxins that have been structurally modified within the body providing more accurate results than similar testing run through mass spectrometry.

Liquid Chromatography/ Triple Quadrupole Mass Spectrometry (LC-MS/MS) instrumentation is used to quantitatively evaluate patient urine specimens for metabolically-derived organic acids.

Specimen Stability	
Liquid Urine Sample	7 days
Dried Urine Card	14 days

Sample Requirements	
Liquid Urine	3 ml
Urine Card	1 Card

### Mycotoxins

#### Aflatoxins

Aflatoxin B1  
Aflatoxin B2  
Aflatoxin G1  
Aflatoxin G2

#### Trichothecenes

Stratoxin G  
Stratoxin H  
Isosatratoxin F  
Roridin A  
Roridin E  
Roridin H  
Roridin L-2  
Verrucarin J  
Verrucarin A

#### Other Mycotoxins

Gliotoxin  
Ochratoxin A (OTA)  
Zearalenone (ZEA)

### Organic Acids

#### Glycolysis Metabolites

Lactate  
Pyruvate

#### Citric Acid Cycle Metabolites

Alpha-Ketoglutarate  
Citrate  
Cis-Aconitate  
Fumarate  
Isocitrate  
Malate  
Succinate

#### Fatty Acid Oxidation

Adipate  
Ethylmalonate  
Methylsuccinate  
Suberate

#### Ketone Metabolites

Alpha-Hydroxybutyrate  
Beta-Hydroxybutyrate

#### Markers for Protein Metabolism

Alpha-Ketoisovalerate  
Alpha-Ketoisocaproate  
Alpha-Keto-Beta-Methylvalerate  
Beta-Hydroxyisovalerate  
Hydroxymethylglutarate  
Methylmalonate

#### Markers of Neurotransmitter Metabolism

5-Hydroxyindoleacetate  
Homovanillate  
Kynurenate  
Vanilmandelate  
Quinolinolate

#### Markers of Detoxification

Benzoate  
Orotate  
Hippurate  
Para-Hydroxyphenyllactate  
Pyroglutamate

#### Markers of Bacterial Metabolism

2-Hydroxyphenylacetate  
3-Indoleacetate  
Para-Hydroxybenzoate  
Para-Hydroxyphenylacetate  
Tricarballylate

### Environmental Pollutants

#### Xylene Exposure

2-Methylhippurate  
3-Methylhippurate

#### Toluene Exposure

Benzoate  
Hippurate

#### Benzene Exposure

t,t-Muconic Acid

#### Trimethylbenzene Exposure

3,4-Dimethylhippurate

#### Styrene Exposure

Mandelate  
Phenylglyoxylate  
Mandelate + Phenylglyoxylate

#### Phthalate Exposure

Monoethyl Phthalate  
Phthalate  
Quinolinolate

#### Paraben Exposure

Para-Hydroxybenzoate

#### Methyl Tert-butyl Ether Exposure

Alpha-Hydroxyisobutyrate

# STOOL MICROBIOME PROFILES

## MICROBIOME BASIC

*Specimen Type: Stool Sample*

The GI-Basic Profile is US BioTek's entry-level GI Microbiome Profile measuring 78 markers from 8 GI testing categories. The profile uses state-of-the-art technology to offer results based on cellular DNA, providing sensitive, accurate, and reproducible results.

Specimen Stability		Sample Requirements	
Stool	12 days	Stool	2 Tubes (40ml)

### Key Phyla % Commensal

Abundance  
Bacteroidetes  
Firmicutes  
Firm/Bact Ratio  
Proteobacteria  
Actinobacteria  
Verrucomicrobia  
Euryarchaeota

### Parasites & Worms

Cryptosporidium  
Ent. Histolytica  
Giardia Intestinalis  
Blast. hominis  
Dient. Fragilis  
Endolimax nana  
Ent. Coli  
Pent. Hominis  
Ascaris lumbricoides, round  
Necator americanus, hook  
Trichuris trichuria, round  
Taenia species, tape  
Enterob. Vermicularis  
Strongyloides stercoralis  
Enterocytozoon spp  
Hymenolepis spp

### Opportunistic Bacteria

Bacillus sp.  
Enterococcus faecalis  
Enterococcus faecium  
Morganella sp.  
Pseudomonas sp.  
Pseud. aeruginosa  
Staphylococcus sp.  
Staph. aureus  
Streptococcus sp.  
Methanobacteriaceae  
Desulfovibrio piger  
Oxalobacter formigenes

### Pot. AutoImmune Triggers

Citrobacter sp.  
Citrobacter freundii  
Klebsiella sp.  
Klebsiella pneumoniae  
Prevotella copri  
Proteus sp.  
Proteus mirabilis  
Fusobacterium sp.

### Fungi & Yeast

Candida sp.  
Candida albicans  
Geotrichum sp.  
Saccharomyces cerevisiae.  
Rhodotorula sp.

### Bacterial Pathogens

Aeromonas sp.  
Campylobacter sp.  
C. difficile, Toxin A  
C. difficile, Toxin B  
Enterohaemorrhagic E. coli  
Enteroinvasive E. coli/Shigella  
Enterotoxigenic E. coli LT/ST  
Shiga-like toxin E. coli stx 1  
Shiga-like toxin E. coli stx 2  
Salmonella sp.  
Vibrio spp  
Yersinia enterocolitica  
Helicobacter pylori PCR & EIA  
H. pylori virulence factors (x8)

### Viral Pathogens

Adenovirus 40/41  
Norovirus GI/II  
Rotavirus  
Sapovirus (I,II,IV,V)  
Astrovirus (hAstro)

### Normal Bacteria/Flora

Bacteroides fragilis  
Bifidobacterium sp.  
Bifidobacterium longum  
Enterococcus species  
Lactobacillus species  
Lactobacillus rhamnosus  
Clostridium sp.  
Enterobacter sp.  
Akkermansia muciniphila  
Faecalibacterium prausnitzii  
Roseburia sp.

# MICROBIOME INTERMEDIATE

Specimen Type: Stool Sample

The GI – Standard Profile builds upon the GI – Basic Profile offering 92 markers from 11 GI Testing Categories offering a more robust profile for a complete view of the GI Microbiome, providing the insights needed to get patients on the road to wellness success.

The profile uses state-of-the-art technology to offer results based on cellular DNA, providing sensitive, accurate, and reproducible results.

Specimen Stability		Sample Requirements	
Stool	12 days	Stool	2 Tubes (40ml)

## All Markers From GI-Basic Profile and:

### Macroscopy

- Stool Colour
- Stool Form
- Mucous
- Occult Blood

### Short Chain Fatty Acids

- Butyrate
- Acetate
- Propionate
- Valerate

### GI Functional Markers

- Calprotectin
- Pancreatic Elastase
- Secretory IgA
- Zonulin
- b-Glucuronidase
- Steatocrit
- Gliadin IgA

# MICROBIOME ADVANCED

Specimen Type: Stool Sample

The GI – Advanced Profile is the most comprehensive GI Microbiome Profile building upon the Basic and Standard profile to offer 98 markers from 15 different testing categories. The profile combines different testing methodologies to offer highly sensitive results with industry-leading accuracy and reproducibility.

Specimen Stability		Sample Requirements	
Stool	12 days	Stool	2 Tubes (40ml)

## All Markers From GI-Standard Profile and:

### Microbial Culture Along-Side PCR (Dual Method)

- Bacteria
- Yeast

### Antimicrobial Sensitivities

- Antibiotics
- Natural
- Antifungals
- Nattural Antifungals

# NUTRISTAT

## NUTRISTAT BASIC PROFILE

*Specimen Type: Serum & Urine Samples*

The NutriStat Basic Profile is a comprehensive nutritional assessment that utilizes different testing technologies to offer a panel with 178 nutritional markers from 27 testing categories, providing insights into nutritional deficiencies and imbalances.

Specimen Stability	
Blood	7 days
Urine	7 days

Sample Requirements	
Blood	31ml
Urine	15ml

### Red Cell Minerals

Chromium  
Cobalt  
Iodine  
Manganese  
Molybdenum  
Selenium.  
Vanadium  
Copper.  
Magnesium.  
Zinc.

### Whole Blood Metals

Aluminium  
Antimony  
Arsenic  
Beryllium  
Bismuth  
Cadmium  
Lead  
Mercury  
Nickel  
Platinum  
Silver  
Thallium  
Tin  
Uranium  
Zirconium

### CU/ZN Serum/Plasma

Copper  
Zinc  
Copper/Zinc Ratio  
Caeruloplasmin  
% Free Copper

### Red Cell Fatty Acids

Saturated Fats, Total  
Monounsaturated Fats, Total  
Omega 3, Total  
Omega 6, Total  
Omega 3/Omega 6 Ratio  
Omega 6/Omega 3 Ratio  
AA/EPA ratio  
omega 3 index  
Delta 6 Desaturase Activity

### Omega 3 Fatty Acids

alpha Linolenic Acid  
Eicosapentanoic Acid  
Docosapentanoic Acid  
Docosahexanoic Acid  
Total Omega 3 Fatty acids

### Omega 6 Fatty Acids

Linoleic Acid  
gamma Linolenic Acid  
Eicosadienoic Acid  
Dihomo-g-linolenic Acid  
Arachidonic Acid  
Docosatetraenoic Acid  
Docosapentaenoic Acid (n6)  
Total Omega 6 Fatty Acids

### Monounsaturated Fats

Palmitoleic Acid  
Oleic Acid  
Gondoic Acid  
Nervonic Acid  
Total Monounsaturated Fats  
Total Omega 9 Fatty Acids

### Saturated Fatty Acids

Myristic Acid  
Palmitic Acid  
Stearic Acid  
Arachidic Acid  
Behenic Acid  
Lignoceric Acid  
Total Saturated Fats  
Trans Fatty Acid Profile  
Trans Palmitoleic Acid  
Trans Oleic Acid  
Trans Linoleic Fatty Acid  
Trans Fatty Acids, Total  
Trans Fat Index

### Amino Acids

#### Essential Amino Acids

Arginine  
Histidine  
Isoleucine  
Leucine  
Lysine  
Methionine  
Phenylalanine  
Taurine  
Threonine  
Tryptophane  
Valine  
Total Branched Chain Aas

### Non-Essential Amino AcidsAlanine

Asparagine  
Aspartate  
Cystine  
GABA  
Glutamic Acid  
Glutamine  
Proline  
Tyrosine

### Large Neutral Amino Acids (LNAA)

Intermediary Metabolites  
alpha-Aminoadipic Acid  
alpha-Aminobutyric Acid  
beta-Aminoisobutyric Acid  
Cystathionine  
Citrulline  
Ornithine  
Urea.  
Glycine  
Serine  
Phosphoserine  
Sarcosine

### Dietary Peptide Related Markers

1-Methyl Histidine  
3-Methyl Histidine  
beta-Alanine  
Anserine  
Carnosine  
Hydroxyproline  
Hydroxylysine

### Amino Acid Functional Ratios

Phenylalanine/Tyrosine  
Glutamate/Glutamine  
Hydroxyproline/Proline  
alpha-Amino-n-Butyrate/Leucine  
Tryptophan/LNAA

### Organic Acids

#### Nutrient Markers

#### Fatty Acid Metabolism

Adipate  
Suberate  
Ethylmalonate  
Pimelate  
2-methylsuccinate

### Carbohydrate Metabolism and Glycolysis

Pyruvate  
L-Lactate  
Hydroxybutyrate  
Glucose

### Citric Acid Cycle

Citrate  
Cis-Aconitate  
Isocitrate  
-Ketoglutarate  
Succinate  
Fumarate  
Malate  
Hydroxymethylglutarate

### B-Complex Vitamin & Amino Acid Markers

Ketoisovalerate  
Ketoisocaproate  
Keto- -Methylvalerate  
Xanthurenate  
Hydroxyisovalerate

### Methylation Cofactor Markers

Methylmalonate  
Formiminoglutamate

### Cell Regulation Markers

#### Neutransmitter Metabolism Markers

Homovanillate  
Vanilmandelate  
5-Hydroxyindoleacetate  
Kynurenate  
Quinolinate  
Picolinate  
Cortisol

### Oxidative Damage and Antioxidant Markers

p-Hydroxyphenyllactate  
8-Hydroxy-2'-deoxyguanosine

### Toxicants and Detoxification

#### Detoxification Indicators

2-Methylhippurate  
Orotate  
Glucarate  
Hydroxybutyrate  
Pyroglutamate

### Compounds of Bacterial or Yeast/ Fungal Origin

#### Bacterial- General

Benzoate  
Hippurate  
Phenylacetate  
Phenylpropionate  
p-Hydroxybenzoate  
p-Hydroxyphenylacetate  
Indican (IAA)  
Tricarballylate

### L.acidophilus/General Bacterial

D-Lactate

### Clostridial Species

3,4-Dihydroxyphenylpropionate (DHPPA)  
4-Cresol  
HPHPA- 3-hydroxypropionic acid

### Yeast/Fungal

D-Arabinitol  
Citramalic  
Tartaric Acid

### Oxalate Metabolites

Oxalate  
Glyceric  
Glycolic

### Additional Nutritional Markers

Vitamin B6 (Pyridoxic)  
Vitamin B5 (Pantathenic)  
Vitamin B2 (Glutaric)  
Vitamin C (Ascorbic)  
Vitamin Q10 (CoQ10)  
N-Acetylcysteine (NAC)  
Vitamin H (Biotin)

# NUTRISTAT COMPLETE PROFILE

Specimen Type: Serum & Urine Samples

The NutriStat Complete Profile builds upon the NutriStat Basic Profile, incorporating 64 markers from 7 additional testing categories for a total of 242 markers, making it the largest nutritional assessment of its kind.

Specimen Stability	
Blood	7 days
Urine	7 days

Sample Requirements	
Blood	31ml
Urine	15ml

## All Markers Form The Nutristat Basic Profile and...

### Metabolic/ Cardiovascular

Cholesterol  
Triglycerides  
HDL(protective)  
Non-HDL Cholesterol  
LDL(atherogenic)  
LDL/HDL ratio (risk factor)  
Lipoprotein (a)  
Apolipoprotein B  
Apolipoprotein A-1  
Ratio (APO B / APO A-1)  
High Sen. CRP  
Very Low Density Lipoprotein (VLDL)  
Intermediate Density Lipoprotein (IDL-1)  
Intermediate Density Lipoprotein (IDL-2)  
Intermediate Density Lipoprotein (IDL-3)

Low Density Lipoprotein (LDL-1)  
Low Density Lipoprotein (LDL-2)  
Low Density Lipoprotein (LDL-3)  
Low Density Lipoprotein (LDL-4)  
Low Density Lipoprotein (LDL-5)  
Low Density Lipoprotein (LDL-6)  
Low Density Lipoprotein (LDL-7)  
LDL Phenotype Pattern  
Mean Particle Size  
Homocysteine  
Fibrinogen  
Glucose (fasting)

### UEC (Renal)

Sodium  
Potassium  
Chloride  
Bicarbonate

Low Density Lipoprotein (LDL-1)  
Low Density Lipoprotein (LDL-2)  
Low Density Lipoprotein (LDL-3)  
Low Density Lipoprotein (LDL-4)  
Low Density Lipoprotein (LDL-5)  
Low Density Lipoprotein (LDL-6)  
Low Density Lipoprotein (LDL-7)

Anion Gap  
Urea  
Creatinine

### Liver Function Tests

Bilirubin (total)  
ALP  
GGT  
ALT  
AST  
Protein - total  
Albumin  
Globulin

### Iron Studies

Iron  
Transferrin  
Transferrin Saturation  
Ferritin

### Vitamins

Activated Vitamin B12  
Serum Folate  
25 OH Vitamin D

### Thyroid Function Assessment

TSH  
Free T4  
Free T4  
Reverse T3  
FT3 : Reverse T3 Ratio ( X 100)  
Thyroid Auto-ab.  
Thyroid Peroxidase ab.  
Antithyroglobulin ab.  
TSH Receptor ab.

### Sex Hormones

Progesterone  
DHEA Sulphate  
Testosterone  
Sex Hormone Binding Globulin  
Calc Free Testosterone (Vermeulen)  
Estradiol  
FT3 : Reverse T3 Ratio ( X 100)  
Thyroid Auto-ab.

Thyroid Peroxidase ab.  
Antithyroglobulin ab.  
TSH Receptor ab.

### Sex Hormones

Progesterone  
DHEA Sulphate  
Testosterone  
Sex Hormone Binding Globulin  
Calc Free Testosterone (Vermeulen)  
Estradiol

# THYROID TESTING

## BASIC THYROID PANEL

*Specimen Type: Serum*

Thyroid dysfunction can have many manifestations, etiologies, and widespread implications for body metabolism and overall health. Early and accurate diagnosis of potential thyroid dysfunction is essential when determining treatment plans. Effectively monitoring and managing symptoms can avoid further health complications and help your patients achieve their health goals.

Our Basic Thyroid Panel is a cost-effective, streamlined assessment for the 5 key markers of thyroid function.

### Markets Tested

TSH  
Free T3  
Free T4  
Triiodothyronine (T3 Total)  
Thyroxine (T4 Total)

### Specimen Stability

Serum	14 days
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### Sample Requirements

1ml
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## COMPREHENSIVE THyrORID PANEL

*Specimen Type: Serum*

Our Comprehensive Thyroid Panel builds upon our Basic Panel including the thyroid antibody biomarkers needed for the diagnosis, monitoring, and management of a variety of autoimmune thyroid disorders such as Hashimoto's disease, autoimmune thyroiditis, and Graves' Disease.

### Markets Tested

TSH  
Free T3  
Free T4  
Triiodothyronine (T3 Total)  
Thyroxine (T4 Total)  
Thyroid Peroxidas Antibodies (TOP)  
Thyroglobulin Antibodies

### Specimen Stability

Serum	14 days
-------	---------

### Sample Requirements

1ml
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# LET'S GET STARTED



## Step 1 Set Up an Account

We invite licensed healthcare providers to set up an account with us at:  
**USBioTek.com/create-account**



## Step 2 Request Kits

Kits are available to registered providers at no charge. Use our online submission form to order the collection kits at:  
**USBioTek.com/request-kits**



## Step 3 Collect Specimen

Easy collection and low volume specimen requirements are advantages of US BioTek. Follow our simple instructions provided in every kit.



## Step 4 Order Tests

Upon completion of specimen collection, complete our test requisition form and include it in your specimen shipment.



## Step 5 View Results

Providers can view and download results through our secure Clinician Portal, or request results by email.

## Billing Policies

### **Prepayment:**

Practitioners, or their patients, may pre-pay US BioTek Laboratories directly with check or credit card.

### **Bill Account**

Practitioners may choose to establish a professional account with a credit card number on file. US BioTek reserves the right to assign credit limits and hold testing for clients unable to maintain good payment status.

### **Insurance:**

US BioTek Laboratories does not bill private insurance for test fees and will not claim on the patient's behalf. Patients may request an itemized receipt that they may then submit to their insurance provider. Coverage under an insurance plan may be subject to limits set by the insurance provider.

### **Cancellation or Refund:**

Tests cannot be canceled and are non-refundable once the specimens are received by the lab.

### **Draw Station Fees:**

Practitioner / patient is responsible for all draw station fees for service.





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**USBioTek.com**