

# **DIAGNOSTIC AUTOMATION, INC.**

23961 Craftsman Road, Suite E/F, Calabasas, CA 91302

Tel: (818) 591-3030 Fax: (818) 591-8383

onestep@rapidtest.com

technicalsupport@rapidtest.com

www.rapidtest.com

**IVD**



See external label



2°C-8°C



Σ=96 tests

**REF**

#1809-9

## **Human Allergen Specific IgG ELISA Assay**

**Cat. No. 1809-9**



### **Intended Use:**

To quantitate total human Immunoglobulin G (IgG) Specific for Common Allergens

### **Principle of Procedure:**

Solid phase capture sandwich ELISA assay using an antigen coated microwell format.

### **Shelf Life:**

The expiration date for the package and each component is stated on the label(s). Store all components at 2° - 8° degrees C. Do not freeze all or in part.

### **Patient and Standard Dilutions:**

Dilute each serum or plasma specimen to be tested **1:100 in the Specimen Diluent provided e.g. 10ul of specimen into 990ul of Specimen Diluent.**

### **Materials Supplied:**

Allergen coated microwell strips 8X12 with plastic frame (over four hundred allergen types available).

HRP conjugated goat anti-human IgG -12mL

TMB/peroxide substrate color developer –12mL

IgG Specimen Diluent –2x 60mL

Sulfuric acid termination reagent (0.5N) –12mL

15 X Wash buffer concentrate – 60mL

**Limitations of the Procedure:**

No single assay should be used as the only basis for arriving at a diagnostic conclusion.

**Dynamic Range:**

0.20 mg/mL to 21.0 mg/mL.

**Reproducibility:**

C.V. 6%-10% depending upon the region of the standard curve.

**Assay Procedure:**

\*Allow each reagent to reach room temperature before use

1. Add 100uL of *diluted* specimen or standard to each antigen coated microwell
2. Incubate at room temperature for 45 minutes
3. Decant and wash each microwell four times with wash buffer (dilute buffer 1:15 with reagent grade water)
4. Add 100uL of HRP conjugated goat anti-human IgG to each well
5. Incubate at room temperature for 45 minutes
6. Decant and wash as in step 3
7. Add 100uL of TMB/peroxide substrate and incubate at room temperature for 15 minutes
8. Terminate the reaction with 100uL of 0.5N sulfuric acid
9. Zero the microwell reader at 450nm using the specimen diluent zero control well
10. Determine the optical density (O.D.) of the remaining wells
11. Optical Densities are interpolated into Classes:

<u>O.D.@450nm</u>	<u>Class</u>
0.000-0.250	Class O (Negative)
0.250-0.350	Class I (Equivocal)
0.350-0.450	Class II
0.450-0.550	Class III
>0.550	Class IV

**Allergens Available: (other allergens available upon request)**

INHALANT ALLERGENS:

<i>A. alternata</i>	Eastern White Pine	Oat Grass	Yellow Dock
<i>A. vulgaris</i> (Mugwort)	European Filbert	Orchard Grass	Yellow Pine
<i>Abisidia ramosa</i>	English Plantain	Ox-Eye Daisy	
Acacia	English Walnut	<i>P. communis</i>	
<i>Ambrosia psilostarch</i>	Epicoccum	<i>P. pululans</i>	
American Beech	<i>F. oxysporum</i>	Paristaria	
American Elm	Fescue	<i>Penicillium chrysogenum</i>	
American Hazelnut	Fire Ant	<i>Penicillium notatum</i>	
<i>Aspergillus niger</i>	Fleas	<i>Phoma glomerata</i>	
<i>Aspergillus repens</i>	Fuarium	Pigeon Droppings	
<i>Aspergillus terreus</i>	<i>G. candidum</i>	Pigsweed	
<i>Aureobasidium pullularia</i>	German Cockroach	Poplar	
Bahai Grass	Giant Ragweed	Pyrethrum	
Baker's Yeast	Giant Wild Rye	Queen Palm	
Bent Grass	Goat Hair	Rabbit Epithelial	
Bermuda Grass	Goose Feathers	Ragweed	
Birch	Guinea Pig Hair	Rat Epithelial	
Black Locust	<i>H. velgare</i> (Barley)	Red Mulberry	
Black Oak	Hamster Epithelial	Red Oak	
Black Willow	<i>Helminthosporium sativum</i>	Redtop	
Blue Gum	Hickory	Reed's Canary grass	
Botrytis	Honey Myrtle	<i>Rhizopus nigricans</i>	
Box Elder	Horse Dander	Roughmarsh Elder	
Brewers Yeast	House Dust	Russian Thistle	
Brome	Human Hair	Rye Grass (perennial)	
Brown Cockroach	Italian Cypress	<i>S. aureus</i>	

<i>C. Goldenrod</i>	Johnson Grass	Sage Brush
<i>C. hormodendrum</i>	June Grass	Sheep Sorrel
<i>C. lunata</i>	Kapoc	Sheeps Wool
<i>Candida albicans</i>	Kochia	Short Ragweed
Cat Hair	Lamb's Quarters	Smooth Alder
Cattle Hair	<i>M. canis</i> (ringworm)	Spadicoides
Chicken Feathers	Malaleuca	Stemphylium b.
Cladosporium	Meadow Foxtail	Sugar Maple
Cocklebur	Mesquite	Sweet Vernal Grass
Common Reed	Mimosa	Sycamore
Cotton	Mites ( <i>D. farinae</i> )	<i>T. aestivum</i> (wheat pollen)
Cottonwood	Mites ( <i>D. pteronyssinus</i> )	<i>T. canus</i> (gut parasite)
Cultivated Wheat	Mixed Feathers	<i>T. pisiformis</i> (tapeworm)
Curvularia	Mixed Ragweed	<i>T. vulpis</i> (gut parasite)
Curvularia <i>lunata</i>	Mouse Epithelial	Timothy
Dust mites	Mt. Cedar	<i>Trichoderma veride</i>
	<i>Mucor racemosus</i>	<i>Trichophyton mentagrophytes</i>
Dandelion	<i>Mucor mucedo</i>	Trichothecium
Dog Dander	mugwort	Velvet Grass
Dog Hair	Nettle	White Ash
Duck Feathers	Nigrospora	Wormwood

**FOOD ALLERGENS:**

Alfalfa	Haddock	Tomato
Alfalfa Meal	Honeydew Melon	Tuna
Almond	Kiwi Fruit	Turkey
Apple	Lactalbumin	Vanilla Bean

Atlantic Blue Mussel	Lamb	Venison (Odecoileus)
Bacon	Lettuce	Walnut
Barley	Liver	Wheat
Bean Sprouts	Lobster	White Bean
Beef	Mango	White Potato
Beet Pulp	Millet	
Black Pepper	Mushroom	
Brewers Yeast	Navy Bean	
Broccoli	Oat	
Buckwheat	Olive	
Cabbage	Onion	
Canola Meal	Orange Pekoe Tea	
Carrot	Orange	
Casein	Parsley	
Celery	Pea	
Cheddar Cheese	Peaches	
Chicken	Peanut	
Chocolate	Pear	
Clam	Pecan	
Cocoa	Pinto Bean	
Cod	Pork	
Coffee	Poultry	
Corn	Raw Sunflower	
Corn Gluten Meal	Rice	
Cottonseed Meal	Rye	
Crab	Salmon	
Cultivated Oats	Seaweed	
Dry Milk	Scallop	
Egg White	Soybean	

Egg Whole	Shrimp
Egg Yolk	Strawberry
Fish Meal	Suger Beets
Flaxseed Meal	Sunflower Meal
Flounder	Sweet Potato
Garlic	

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