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### Human Allergen Specific IgE Assay

REF

Catalog No. E4-002

IVD

For Research Use Only

#### Intended Use:

To qualitate and quantitate allergen specific human Immunoglobulin E

\*Note: prior to running allergen specific IgE assays, be sure to determine the total IgE of the specimen.

#### Principle of Procedure:

Solid phase capture sandwich ELISA assay using a 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° C. Do not freeze all or in part.

#### Materials Supplied:

Allergen coated microwell strips 12x8 with plastic frame  
HRP conjugated anti-human IgE -1 X 12mL  
TMB/peroxide substrate color developer II -30ml  
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:

0.35 - 0.70 PRU/mL, depending on the type of allergen used.

#### Reproducibility:

C.V. 6%-10%

#### Assay Procedure:

\**Caution:* All human fluids should be treated as infectious agents that could carry HIV.

For each specimen, place one strip of allergen coated microwells in the plastic frame and label the corresponding schematic with the patient's names or ID numbers.

1. Bring all reagents to 25°C.
2. Add 100 uL of serum or plasma to each microwell.
3. Incubate for 2 hours at 25°C but not greater than 30°C.
4. Decant and wash five times with previously diluted wash buffer (see "preparation of reagents".) Firmly grip and pound upside down on folded, clean dry paper towels after the last decantation.
5. Add 100uL of HRP conjugated anti-human IgE to each well respectively.
6. Incubate for 2 hours 25°C but not greater than 30°C.
7. Decant and wash as in "step 5".
8. Add 100uL of TMB/peroxide substrate (Colorburst TM Blue II) to each well respectively.
9. Incubate for 30 minutes at 25°C but not greater than 30°C.
10. Add 100uL of termination reagent (0.5N sulfuric acid) to each well respectively.
11. Read the optical density (O.D.) at 450 nm using a standard microwell plate reader zeroed on the negative control well.

#### Interpretation of Results:

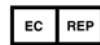
O.D. @450nm

- 0.000 - 0.250 = Negative  
0.251 - 0.350 = Class I  
0.351 - 0.450 = Class II  
0.451 - 0.550 = Class III  
> 0.550 = Class IV

#### Preparation of Reagents:

Wash Buffer:

Prior to performing the assay, dilute 1 part of the 15X Wash Buffer concentrate in 14 parts of reagent grade water. Mix thoroughly and dispense into a squeeze wash bottle as needed



European Authorized Representative:

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**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	Trichoderma <i>veride</i>
	Mucor <i>racemosus</i>	Trichophyton <i>mentagrophytes</i>
Dandelion	Mucor <i>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 ( <i>Oedocoileus</i> )
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

Egg Whole

Egg Yolk

Fish Meal

Flaxseed Meal

Flounder

Garlic

Soybean

Shrimp

Strawberry

Suger Beets

Sunflower Meal

Sweet Potato