



Canine/ Feline Allergen Specific IgE Assay

REF

Catalog No.V4-908

Intended Use:

To qualify and quantify allergen specific Immunoglobulin E (IgE)

Principle of Procedure:

Solid phase capture sandwich ELISA assay using an allergen 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.

Specimen Dilution:

Dilute each serum or plasma specimen to be tested 1:5 with the specimen diluent provided.

Materials Supplied:

Two allergen coated microwell strip plates (12 x 8) with plastic frame

Two 60mL vials of specimen diluent green

Two 60mL vials of 15X wash buffer concentrate

Two 12mL vials of rabbit anti-canine/feline IgE (blue solution)

Two 12mL vials of HRP conjugated goat anti-rabbit IgG (red solution)

One 30 mL vial of TMB/ peroxide color developer

Two 12 mL vials of sulfuric acid termination reagent (0.5N)

Limitations of the Procedure:

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

Reproducibility:

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

Assay Procedure:

*Allow each reagent to reach room temperature before use, dilute specimen and incubate at 4°C for 18 - 24 hours before use

1. Arrange the microwell strips in plastic frame according to schematic provided
2. Add 100uL of diluted specimen to each microwell
3. Incubate at room temperature for 2 hours
4. Decant and wash each microwell five times with wash buffer (dilute buffer 1:15 with reagent grade water)
5. Add 100uL of R-3 (blue solution) and then 100 uL of R-4 (red solution) to each well
6. Incubate at room temperature for 3 hours
7. Decant and wash as in step 4
8. Add 100uL of TMB/peroxide substrate and incubate at room temperature for 30 minutes
9. Terminate the reaction with 100uL of 1.0N sulfuric acid
10. Zero plate reader on the negative control well
11. Read with a standard microwell plate reader at 450 nm
12. Interpret results with the following scoring scheme:

Interpretation of Results:

O.D. at 450nm	Class:
0.000-0.250	Class 0 (Negative)
0.250-0.350	Class I (Equivocal)
0.350-0.450	Class II (True Positive)
0.450-0.550	Class III
>0.550	Class IV

Allergens Available: (other allergens available upon request)

INHALANT ALLERGENS:

A. alternata	Eastern White Pine	Oat Grass	Yellow Dock
A. vulgaris (Mugwort)	European Filbert	Orchard Grass	Yellow Pine
Abisidia ramosa	English Plantain	Ox-Eye Daisy	
Acacia	English Walnut	P. communis	
Ambrosia psilostarch	Epicoccum	P. pululans	
American Beech	F. oxysporum	Paristaria	
American Elm	Fescue	Penicillium chrysogenum	
American Hazelnut	Fire Ant	Penicillium notatum	
Aspergillus niger	Fleas	Phoma glomerata	
Aspergillus repens	Fuarium	Pigeon Droppings	

Aspergillus terreus	G. candidum	Pigsweed
Aureobasidium pullularia	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	H. vulgare (Barley)	Red Mulberry
Black Oak	Hamster Epithelial	Red Oak
Black Willow	Helminthosporium sativum	Redtop
Blue Gum	Hickory	Reed's Canary grass
Botrytis	Honey Myrtle	Rhizopus nigricans
Box Elder	Horse Dander	Roughmarsh Elder
Brewers Yeast	House Dust	Russian Thistle
Brome	Human Hair	Rye Grass (perennial)
Brown Cockroach	Italian Cypress	S. aureus
C. Goldenrod	Johnson Grass	Sage Brush
C. horridum	June Grass	Sheep Sorrel
C. lunata	Kapoc	Sheeps Wool
Candida albicans	Kochia	Short Ragweed
Cat Hair	Lamb's Quarters	Smooth Alder
Cattle Hair	M. canis (ringworm)	Spadicoides
Chicken Feathers	Malaleuca	Stemphylium b.
Cladosporium	Meadow Foxtail	Sugar Maple
Cocklebur	Mesquite	Sweet Vernal Grass
Common Reed	Mimosa	Sycamore
Cotton	Mites (D. farinae)	T. aestivum (wheat pollen)
Cottonwood	Mites (D. pteronyssinus)	T. canus (gut parasite)
Cultivated Wheat	Mixed Feathers	T. pisiformis (tapeworm)
Curvularia	Mixed Ragweed	T. vulpis (gut parasite)
Curvularia lunata	Mouse Epithelial	Timothy
Dust mite	Mt. Cedar	Trichoderma veride
Dandelion	Mucor racemosus	Trichophyton mentagrophytes
Dog Dander	Mucor mucedo	Trichothecium
Dog Hair	mugwort	Velvet Grass
Duck Feathers	Nettle	White Ash
	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 (Odocoileus)
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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