

ALLOS

Reference Laboratory

A Service of Hitachi Chemical Diagnostics, Inc.

Directory of Services

License and Certification

California
New York
CLIA
Medicare

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SERVICES

The Allos Reference Laboratory uses the **CLA[®] Allergen-Specific IgE Assay**, an *in vitro* test for use in the semi-quantitative determination of circulating allergen-specific IgE concentrations in human serum. The Lab has been an ideal alternative since 1986 for reference laboratories, hospitals, medical groups and private practitioners with no internal testing facilities. A Board-Certified Allergist is available to answer questions relating to our allergy testing services.

Allos Reference Laboratory uses FDA-cleared reagents and procedures and is a participant in the proficiency testing programs offered by the College of American Pathologists and the American Proficiency Institute.

SUPPLIES

Allos Reference Laboratory provides request forms, pre-paid mailers, and serum vials to all of its customers at no charge.

CONTACT INFORMATION

Allos Reference Laboratory service business hours are 8:00 AM to 5:00 PM (PST) Monday through Friday.

Tel: 800 272 6278
Fax: 650 969 2745
E-mail: support@hcdiagnostics.com

SPECIALIZED SERVICES AND SUPPORT

Professional patient reports.

Patient education materials.

Consultation with a Board-Certified Allergist regarding test selection and interpretation of results.

BILLING

Allos Reference Laboratory provides credit to all referring physicians, hospitals and reference laboratories. Monthly, summarized invoice statements are sent to all customers with outstanding balances. Allos Reference Laboratory accepts Visa[®] and MasterCard[®] for payment of laboratory services.

Direct Client Billing

- Fill in the patient's name, complete address, date of birth, date of sera collection, telephone number and ICD-9 Code in the space provided.
- Payment is due upon receipt of Invoice Statement.
- Refer to the "Patient Fee Schedule" for pricing.

Please note: California State Law prohibits the offering of professional courtesy testing.

Patient Pre-pay

- Fill in the patient's name, complete address, date of birth, date of sera collection, and telephone number in the space provided.
- Payment must be made in the form of a check/money order or Visa/MasterCard and must be included with the specimen. Failure to include payment will delay testing.
- Refer to the "Patient Fee Schedule" for pricing.

Insurance/Third Party Billing

- Fill in the patient's name, complete address, date of birth, date of sera collection, telephone number and ICD-9 code in the space provided.
- Attach a copy of the patient's insurance card(s) to requisition form.
- Include your Physician UPIN number and Physician signature on the request form.
- Refer to the "Patient Fee Schedule" for pricing.

CPT CODING

The following CPT Codes have been identified courtesy of the 2005 AMA CPT Code Book. Allos Reference Laboratory is happy to provide this information, but cannot be liable for any misfiled claims.

<u>Description</u>	<u>CPT Code</u>
Collection of venous blood by venipuncture	36415
Handling and/or conveyance of specimen for transfer from the physician's office to a laboratory	99000
Qualitative, Multi-Allergen Screen	86005
Allergen Specific IgE; Quantitative or Semiquantitative, Each Allergen	86003
12 Allergen Panel X 12	
25 Allergen Panel X 25	
36 Allergen Panel X 36	

ICD-9 DIAGNOSTIC CODING

It is the physician's responsibility to determine which code to use when billing for specific procedures and services. ICD-9 Diagnostic codes commonly associated with *in vitro* allergy testing are listed as they appear in the 2005 ICD-9-CM Code Book.

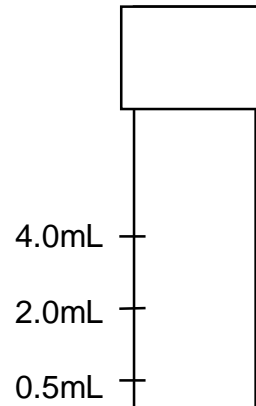
466.0	Acute Bronchitis	Skin:	
786.2	Cough	995.1	Angio Neurotic Edema
493.00	Extrinsic Asthma	691.8	Atopic Dermatitis
493.01	Extrinsic Asthma w/ Status	692.9	Contact Dermatitis, Unspecified
487.01	Influenza URI Acute	693.1	Dermatitis Due to Food Ingestion
486	Pneumonia	693.0	Dermatitis Due to Medications
786.1	Stridor	691.0	Diaper Dermatitis
786.06	Tachypnea	692.5	Food Contact Dermatitis
493.90	Asthma, Unspecified	919.4	Insect Bite
493.91	Asthma, Unspec. w/ Status	692.83	Metal Contact
465.8	URI w/ Multiple Sites	692.6	Plant Contact
465.0	URI w/ Acute Laryngopharyngitis	698.9	Pruritus
478.5	Vocal Cord Disease	708.0	Urticaria Allergic
786.07	Wheezing	708.3	Urticaria Dermatographic
		708.1	Urticaria Idiopathic
		708.2	Urticaria, Cold and Heat
Ear:		Sinus:	
382.01	Acute Suppurative OM w/ rupture	461.2	Acute Ethmoidal Sinusitis
382.00	Acute Suppurative OM w/out rupture	461.1	Acute Frontal Sinusitis
382.9	Otitis Media, Unspecified	461.0	Acute Max. Sinusitis
381.01	Serous Otitis Media Acute	461.3	Acute Sphenoid Sinusitis
381.10	Serous Otitis Media Chronic	461.9	Acute Unspecified Sinusitis
Eye:		473.0	Chron. Max. Sinusitis
372.05	Acute Atopic Conjunctivitis	473.9	Chron. Unspec. Sinusitis
372.14	Chronic Atopic Conjunctivitis	473.2	Chronic Ethmoidal Sinusitis
Allergic Rhinitis:		473.1	Chronic Frontal Sinusitis
472.0	Chronic Rhinitis	473.3	Chronic Sphenoid Sinusitis
477.0	Pollen Rhinitis	461.8	Pan Acute Sinusitis, Unspec.
477.8	Other Allergens, Rhinitis	462	Pharyngitis, Acute
471.0	Polyps (nasal cavity)	GI:	
471.8	Polyps (sinuses)	558.3	Allergic Gastroenteritis (Identify type of food allergy _____)
474.10	Tonsil & Adenoid Hypertrophy	579.0	Celiac
474.11	Tonsil / Hypertrophy Alone	530.10	Gastroesophagitis, Unspecified
Other Allergies:		536.2	Vomiting, Persistent
995.2	Adverse Effect of Drug	Immune System:	
995.0	Anaphylactic Shock, Other Food	279.3	Immunodeficiency Unspec.
995.60	Anaphylaxis due to: Unspecified	279.01	Selective IgA Deficiency
995.61	Peanut	279.03	Other Selective Ig Defic.
995.62	Crustaceans		
996.63	Fruits / Veggie		
995.64	Tree Nuts		
995.65	Fish		
995.66	Food Additives		
995.67	Milk		
995.68	Eggs		
995.69	Other Specified Foods (Identify type _____)		
989.5	Insect Sting Allergy		
995.3	Unspecified Allergy Rxn.		

COLLECTING, PREPARING AND STORING SERUM

All patient specimens should be handled as being potentially biohazardous. Universal precautions should be followed.

1. Draw blood into a 10 mL red top or serum separator tube.
 - i. Serum separator tubes (SST) contain an inert material, which separates the serum from the cells when centrifuged.
 - ii. Hemolyzed or lipemic serum may adversely affect the performance of the CLA Allergen Specific IgE Assay. If sample is lipemic or hemolyzed, redraw sample.
2. Allow blood to clot in the original tube for 30 minutes.
3. Centrifuge clotted blood 10-20 minutes at 2k-3k x g in original tube.
4. Transfer serum from the primary tube into an appropriately labeled, clean plastic transport tube. Ensure no red blood cells are transferred. Each panel requires a minimum of 2.0 mL of serum.

5. Label plastic tubes with the following:
 - i. Patient's Name
 - ii. Ordering physician's name
 - iii. Date of collection



6. Complete request form. The following information is required:
 - i. Patient's full name
 - ii. Physician's name
 - iii. Patient's DOB, Sex (optional)
 - iv. Billing Information
 - v. Date serum collected
 - vi. Test or panels requested
7. Store serum sample in refrigerator (2-8°C) if not shipped on day of collection (avoid shipping on Fridays and before holidays). If samples are to be shipped in excess of five days from collection, they should be frozen (-20°C). Freeze and thaw dates should be noted on the requisition form.
8. Samples older than one month will not be accepted for testing.
9. Lipemic, hemolyzed or insufficient samples will not be accepted.

SHIPPING SAMPLES

Allos Reference Laboratory encourages the prevention of specimen leakage and accidental exposure to biological agents. Our mailers, when used properly, comply with current packaging standards for biological products.

1. For proper sample collection and storage, please refer to the “Collecting, Preparing Storing Serum” section on page six.
2. Tighten the lid on the specimen vials. If the specimens are frozen, thaw first, then re-tighten the lids.
3. Wrap the specimen vials in absorbent material.
4. Seal the wrapped vials in the second pocket of the sample bag.
5. Place the folded requisition form in the first pocket of the sample bag.
6. Fold the sample bag and place inside the pre-addressed bubble mailer, seal and drop in the mail.

Overnight shipping is available upon request.

TURN AROUND TIMES

Test results are available approximately three business days after receiving the sample. Results are faxed upon completion of assay and a hard copy of all results is mailed to the requesting provider.

Allos Reference Laboratory closes for approximately ten days over the winter holidays. A specific schedule is provided annually before Thanksgiving.

ADDITIONAL TESTING

In some cases, clients may require additional testing. Please contact Allos Reference Laboratory and provide the patient’s name, accession number and additional tests to be done. All orders must be submitted in writing.

Extra serum is stored for one month after receipt of the sample.

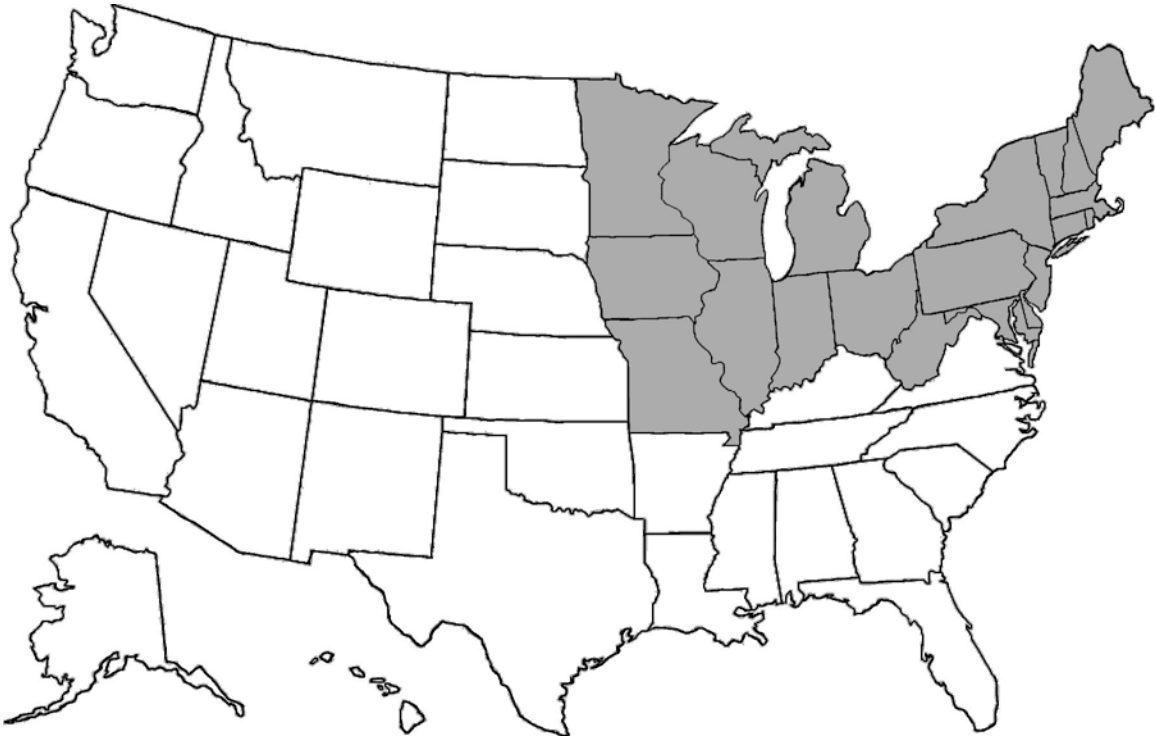
IgE ALLERGEN PANELS

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* Analyte Specific Reagent – Not FDA Cleared

36 ALLERGEN INHALANT PANELS

Northeastern Inhalant Panel, 36 Allergens (1404)



Trees

Alder, White
Ash, White
Beech, American
Birch, White
Box Elder, Maple
Cottonwood, Eastern
Elm, White
Hickory, Shellbark
Oak, White
Pine Mix
Privet
Sycamore, American

Grasses

Bermuda Grass
Meadow Fescue
Perennial Rye
Orchard Grass/
Cocksfoot
Timothy Grass

Weeds

Burningbush
Cocklebur
English Plantain
Lamb's Quarters
Marshelder, Rough
Mugwort
Nettle
Pigweed
Ragweed, Short
Sheep Sorrel

Animal Epidermals

Cat
Cockroach Mix
Dog

Housedust & Mites

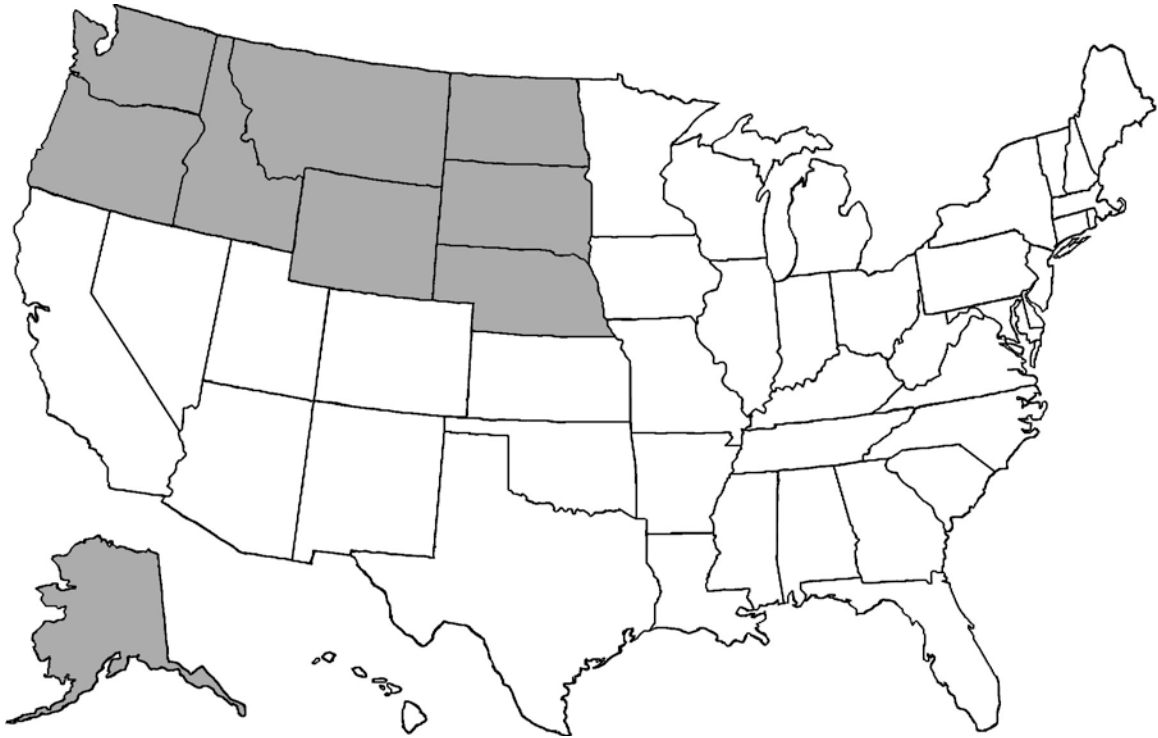
Housedust
Mite, Farinae

Molds

Alternaria
Aspergillus
Cladosporium
Penicillium

36 ALLERGEN INHALANT PANELS

Northwestern Inhalant Panel, 36 Allergens (1405)



Trees

Ash, White
Aspen, Quaking
Birch/Alder Mix
Box Elder, Maple
Cedar, Mountain
Cottonwood, Black
Elm Mix
Oak Mix
Pine Mix
Privet
Sycamore, American
Walnut/Hickory/Pecan Mix
Willow, Arroyo

Grasses

Sweet Vernal
Grass

Weeds

Burningbush
Cocklebur
English Plantain
Lamb's Quarters
Marshelder, Rough
Nettle
Pigweed
Ragweed, False
Ragweed, Western
Russian Thistle
Sagebrush Mix
Shadscale
Sheep Sorrel
Waterhemp

Animal Epidermals

Cat
Dog

Mites

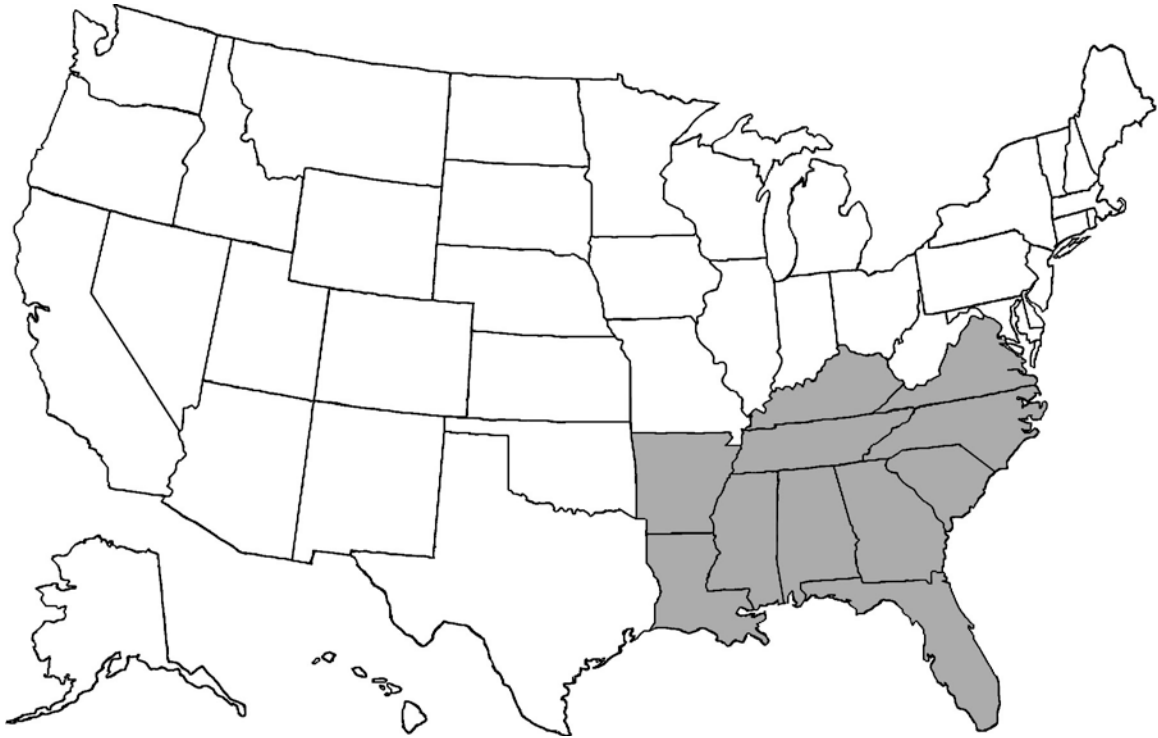
Mite, Farinae

Molds

Alternaria
Aspergillus
Candida
Cladosporium
Penicillium

36 ALLERGEN INHALANT PANELS

Southeastern Inhalant Panel, 36 Allergens (1407)



Trees

Acacia
Ash, White
Beech, American
Birch/Alder Mix
Box Elder, Maple
Cedar, Mountain
Cottonwood, Eastern
Elm, White
Melaleuca
Mulberry Mix
Oak, White
Pine Mix
Privet
Sycamore, American
Walnut/Hickory/Pecan Mix

Grasses

Bahia Grass
Bermuda Grass
Timothy Grass

Weeds

Cocklebur
English Plantain
Lamb's Quarters
Marshelder, Rough
Pigweed
Ragweed, Short
Sheep Sorrel
Waterhemp

Animal Epidermals

Cat
Cockroach Mix
Dog

Housedust & Mites

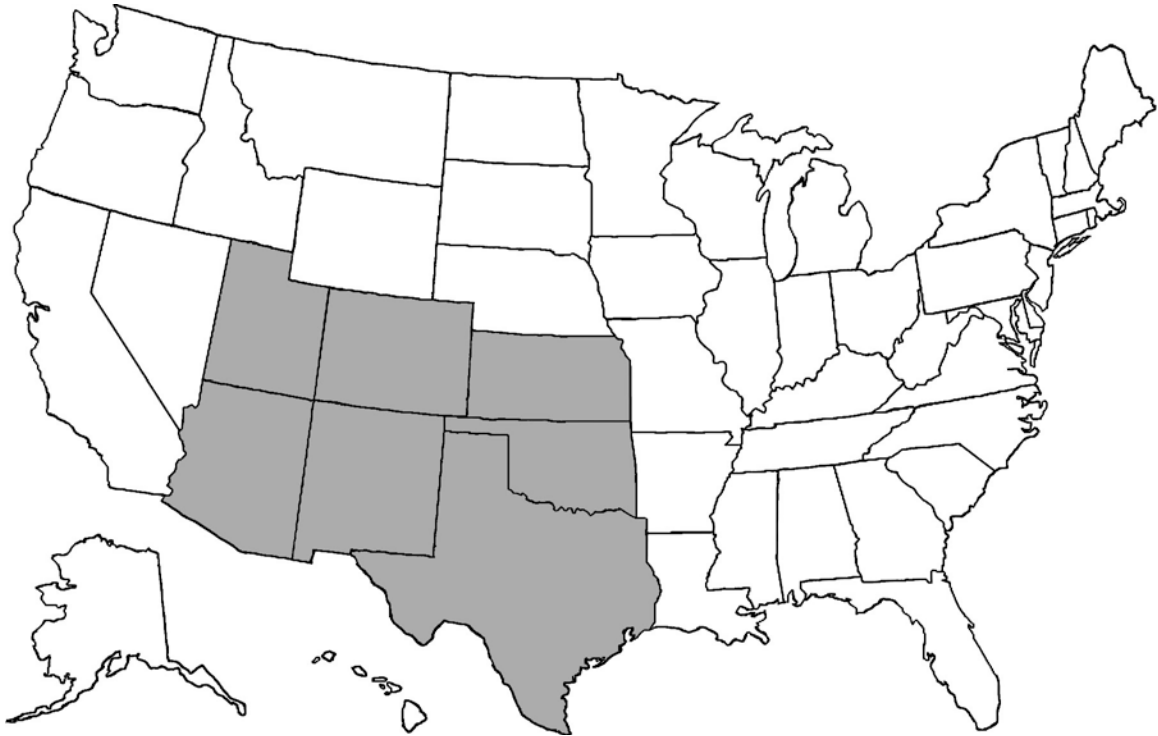
Housedust
Mite, Farinae

Molds

Alternaria
Aspergillus
Candida
Cladosporium
Penicillium

36 ALLERGEN INHALANT PANELS

Southwestern Inhalant Panel, 36 Allergens (1409)



Trees

Ash, White
Birch/Alder Mix
Box Elder, Maple
Cedar, Mountain
Cottonwood, Eastern
Elm, White
Mesquite
Mulberry Mix
Oak Mix
Olive
Pine Mix
Privet
Sycamore, American
Walnut/Hickory/Pecan Mix

Grasses

Bermuda Grass
Kentucky Blue
Grass
Perennial Rye

Weeds

Burningbush
Cocklebur
English Plantain
Lamb's Quarters
Marshelder, Rough
Pigweed
Shadscale
Ragweed, Short
Russian Thistle
Sagebrush Mix
Sheep Sorrel
Waterhemp

Animal Epidermals

Cat
Dog

Housedust & Mites

Housedust
Mite, Farinae

Molds

Alternaria
Aspergillus
Cladosporium

36 ALLERGEN INHALANT PANELS

Western Inhalant Panel, 36 Allergens (1411)



Trees

Acacia
Ash, White
Birch, White
Box Elder, Maple
Cedar, Mountain
Cottonwood, Black
Elm Mix
Eucalyptus
Oak, White
Olive
Sycamore, American
Walnut/Hickory/Pecan Mix
Willow, Arroyo

Grasses

Bermuda Grass
Kentucky Blue
Grass
Johnson Grass

Weeds

Burningbush
Cocklebur
English Plantain
Lamb's Quarters
Mugwort
Pigweed
Ragweed, False
Ragweed,
Western
Russian Thistle
Sagebrush Mix
Shadscale
Sheep Sorrel

Animal Epidermals

Cat
Cockroach Mix
Dog

Mites

Mite, Farinae

Molds

Alternaria
Aspergillus
Candida
Cladosporium

COMBINATION PANELS

Midwest Combination Panel, 36 Allergens (1386)

Trees

Ash, White
Box Elder, Maple
Cottonwood/Willow Mix
Elm, White
Oak, White
Walnut/Hickory/Pecan Mix

Grasses

Bermuda Grass
Grass Mix
Kentucky Blue Grass
Meadow Fescue
Timothy Grass

Weeds

Cocklebur
English Plantain
Lamb's Quarters
Marshelder, Rough
Ragweed, Short
Sheep Sorrel
Pigweed Mix

Animal Epidermals

Cat
Cockroach Mix
Dog

Housedust & Mites

Housedust
Mite, Farinae
Mite, Pteronyssinus

Molds

Alternaria
Aspergillus
Candida
Cladosporium

Foods

Corn
Egg White
Milk
Peanut
Pork
Soybean
Wheat
Yeast, Baker's

Eastern Combination Panel, 36 Allergens (1402)

Trees

Ash, White
Box Elder, Maple
Cottonwood, Eastern
Elm, White
Hickory, Shellbark
Oak, White

Grasses

Bermuda Grass
Sweet Vernal Grass
Timothy Grass

Weeds

Cocklebur
English Plantain
Lamb's Quarters
Mugwort
Ragweed, Short

Animal Epidermals

Cat
Cockroach Mix
Dog

Housedust & Mites

Housedust
Mite, Farinae

Molds

Alternaria
Aspergillus
Cladosporium
Penicillium

Foods

Almond
Corn
Egg, Whole
Garlic
Milk
Orange
Peanut
Potato
Rice
Shellfish Mix
Soybean
Wheat
Yeast, Baker's

COMBINATION PANELS

Southern Combination Panel, 36 Allergens (1408)

Trees Box Elder, Maple Elm Mix Melaleuca Oak, White Pine Mix Walnut/Hickory/Pecan Mix	Animal Epidermals Cat Cockroach Mix Dog Mites Mite, Farinae Molds Alternaria Aspergillus Cladosporium Penicillium	Foods Almond Corn Egg, Whole Garlic Milk Orange Peanut Potato Rice Shellfish Mix Soybean Vegetable Mix Wheat Yeast, Baker's
Grasses Bahia Grass Bermuda Grass Timothy Grass		
Weeds English Plantain Lamb's Quarters Pigweed Ragweed, Short Sheep Sorrel		

Western Combination Panel, 36 Allergens (1410)

Trees Acacia Cedar, Mountain Cottonwood, Black Elm Mix Oak, White Olive Walnut/Hickory/Pecan Mix	Animal Epidermals Cat Cockroach Mix Dog Mites Mite, Farinae Molds Alternaria Aspergillus Candida Cladosporium Penicillium	Foods Almond Corn Egg, Whole Garlic Milk Orange Peanut Potato Rice Shellfish Mix Soybean Wheat Yeast, Baker's
Grasses Bermuda Grass Timothy Grass		
Weeds English Plantain Lamb's Quarters Pigweed Ragweed, False Sagebrush Mix		

COMBINATION PANELS

Pediatric Combination Panel, 36 Allergens (1406)

Trees

Box Elder, Maple
Cedar, Mountain
Elm Mix
Oak Mix
Olive/Privet/Ash Mix
Walnut/Hickory/Pecan Mix

Grasses

Bermuda Grass
Grass Mix

Weeds

Atriplex Mix
English Plantain
Lamb's Quarters
Pigweed
Ragweed Mix I
Rumex Mix
Sagebrush Mix

Animal

Epidermals

Cat
Cockroach Mix
Dog

Housedust &

Mites

Housedust
Mite, Farinae

Molds

Alternaria
Aspergillus
Candida
Cladosporium
Penicillium

Foods

Corn
Egg, Whole
Milk
Orange
Peanut
Rice
Shellfish Mix
Soybean
Tomato
Wheat
Yeast, Baker's

FOODS AND MOLD PANELS

Moderate Food Panel, 25 Allergens (4518)

Almond	Corn	Orange	Soybean
Apple	Egg, Whole	Peanut	Tomato
Barley	Garlic	Pork	Tuna
Bean, White	Milk	Potato	Vegetable Mix
Beef	Oat	Rice	Yeast, Bakers
Chicken	Onion Mix	Shellfish Mix	Wheat
Chocolate			

*** IgE Food and Mold Panel, 36 Allergens (1403)**

Foods

Almond	Codfish	Pork
Barley	Corn	Potato
Bean, White	Egg White	Rice
Beef	Egg Yolk	Salmon
Cabbage Mix	Garlic	Shellfish Mix
Carrot	Milk	Soybean
Celery	Oat	Tomato
Cheese,	Onion Mix	Tuna
Cheddar	Orange	Turkey
Chicken	Peanut	Vegetable Mix

Wheat
 Yeast, Baker's

Molds

Aspergillus
 Candida
 Cladosporium
 Penicillium

*** IgE Extended Food Panel, 31 Allergens (1413)**

Apple	Citrus Mix	Mushroom	Rye
Avocado	Clam	Olive, Black	Sesame Seed
Banana	Crab	Pea	Shrimp
Bean,	Dried Fruit Mix	Peach	Strawberry
Garbanzo	Hazelnut	Pepper, Green	Sugar Mix
Broccoli	Lamb	Pepper /	Walnut
Casein	Malt	Tomato Mix	Yeast,
Cereal Mix III	Mint Mix	Rabbit	Brewer's
Chocolate		Raisin Mix	

* Analyte Specific Reagent – Not FDA Cleared

INDIVIDUAL IgE ALLERGENS

Allergens not found in a specific panel may be requested. Please call for pricing of specific allergens and/or the availability of allergens not listed.

Animal Epidermals

Chicken	Duck	Guinea Pig	Mouse	Rat
Cockatiel	Gerbil	Hamster	Parakeet	
Cow	Goose	Horse	Rabbit	

Foods

Please Specify

Grasses

Please Specify

Insect Venoms

Fire Ant Venom Hymenoptera Panel (Honey Bee, Paper Wasp, White Faced & Yellow Hornet, Yellow Jacket)

Molds

Botrytis Fusarium Epicoccum Mucor Rhizopus

Other Pollens / Allergens

Please Specify

Trees

Please Specify

Weeds

Please Specify

APPENDIX

Specific IgE Allergens Reported by Group

The following screens are reported as a mix based on specific allergens within each mix. The constituents of each are listed below.

Atriplex Mix

Lenscale
Shadscale
Wingscale

Elm Mix

Elm, White
Chinese Elm
Fall Blooming Elm
Hackberry

Birch/Alder Mix

Alder, Mountain
Alder, Speckled
Alder, White
Birch, White

Cabbage Mix

Broccoli
Cabbage
Cauliflower

Cockroach Mix

Cockroach, American
Cockroach, German

Cottonwood/Willow Mix

Cottonwood, Black
Cottonwood, Fremont
Cottonwood, Eastern
Willow, Black
Willow, Arroyo

Grass Mix

Annual Blue Grass
Kentucky Blue Grass
Meadow Fescue
Orchard Grass/Cocksfoot
Perennial Rye
Redtop Grass
Salt Grass
Sweet Vernal Grass
Timothy Grass

Mulberry Mix

Red Mulberry
White Mulberry

Oak Mix

California Black Oak
California Live Oak
Gambel Oak
Scrub Oak
Western White Oak
White Oak

Olive/Privet/Ash Mix

Ash, Arizona
Ash, White
Olive
Privet

Onion Mix

White Onion
Yellow Onion

Pine Mix

Austrian Black Pine
Lodgepole Pine
Virginia Scrub Pine
Yellow Ponderosa
Pine

Pigweed Mix

Pigweed
Careless Weed

Ragweed Mix I

Ragweed, Giant
Ragweed, Short

Ragweed Mix II

Ragweed, False
Ragweed, Western

Rumex Mix

Curly Dock
Sheep Sorrel

Sagebrush Mix

Coastal Sage
Mugwort
Wormwood

Shellfish Mix

Clam
Crab
Shrimp

Walnut/Hickory/Pecan Mix

Bitternut Hickory
Black Walnut
English Walnut
Pecan
Shellbark Hickory
Shagbark Hickory
White Hickory

Vegetable Mix

Broccoli
Pepper, Green
Tomato
Zucchini