

Provider: Sample Report  
 Patient:  
 Accession #:  
 Collected:

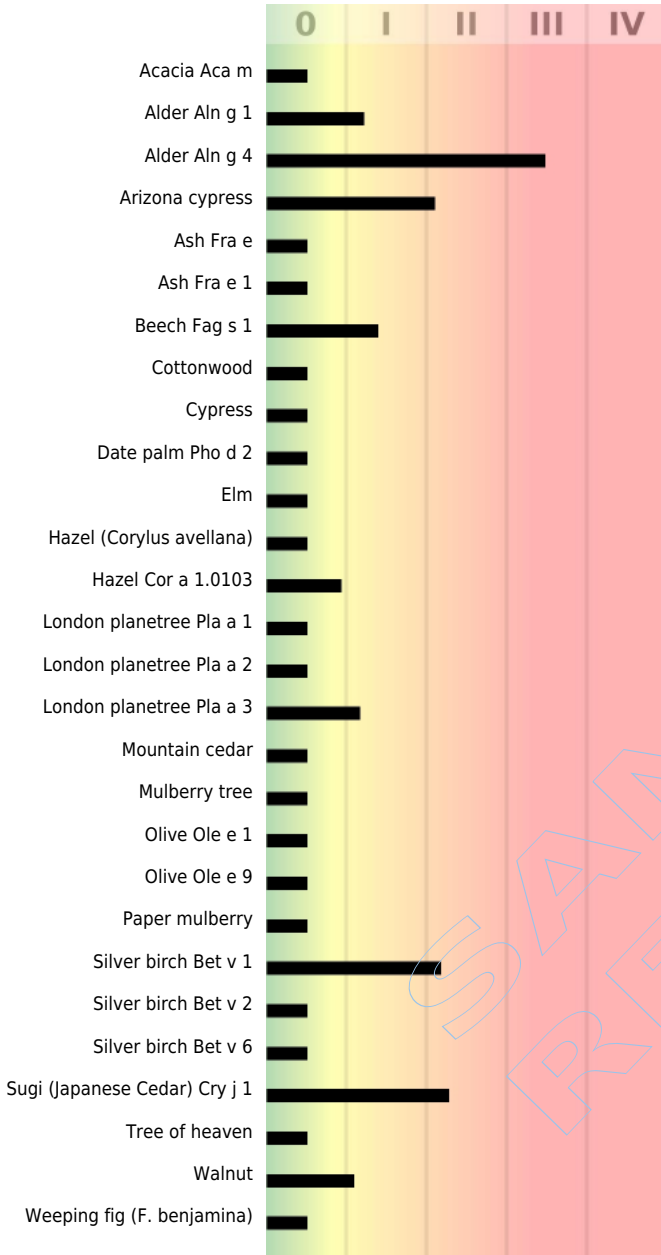
Sex:  
 Age:  
 Received:

Sample Type: Serum  
 Date of Birth:  
 Completed:

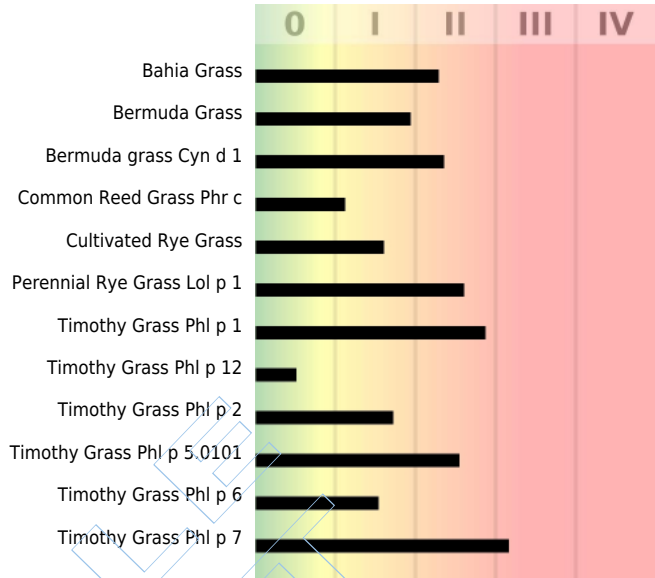
IgE

CLIA #: 50D0965661  
 CAP accredited

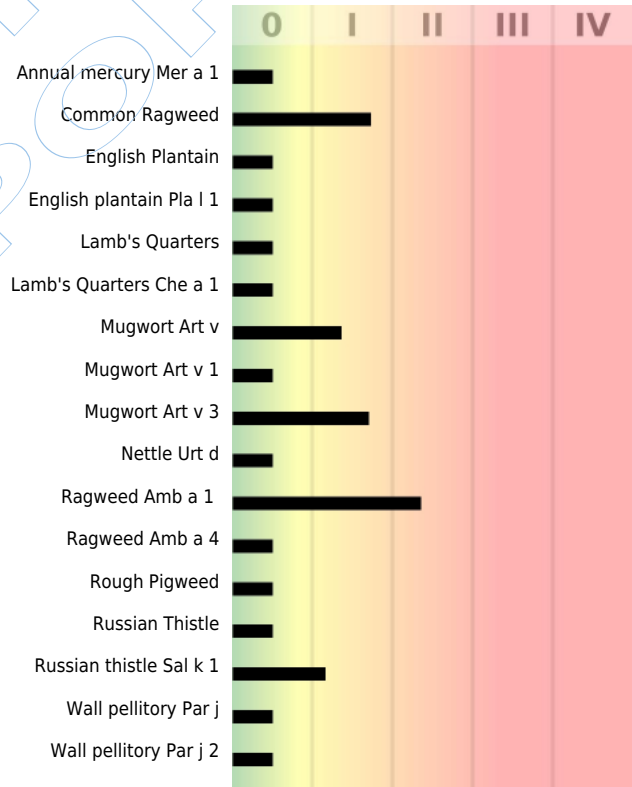
**Trees**



**Grasses**



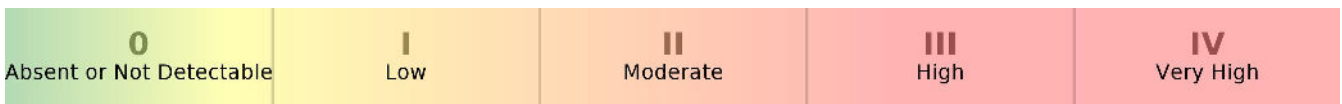
**Weeds**



**CCD Marker**



Semi-Quantitative Immunoassay (ELISA). The test performance characteristics were determined by US BioTek Laboratories, LLC. This test has not been cleared or approved by the US Food and Drug Administration (FDA). IgE test results should be used in conjunction with other relevant clinical information by healthcare providers to diagnose IgE-mediated allergic disorders.



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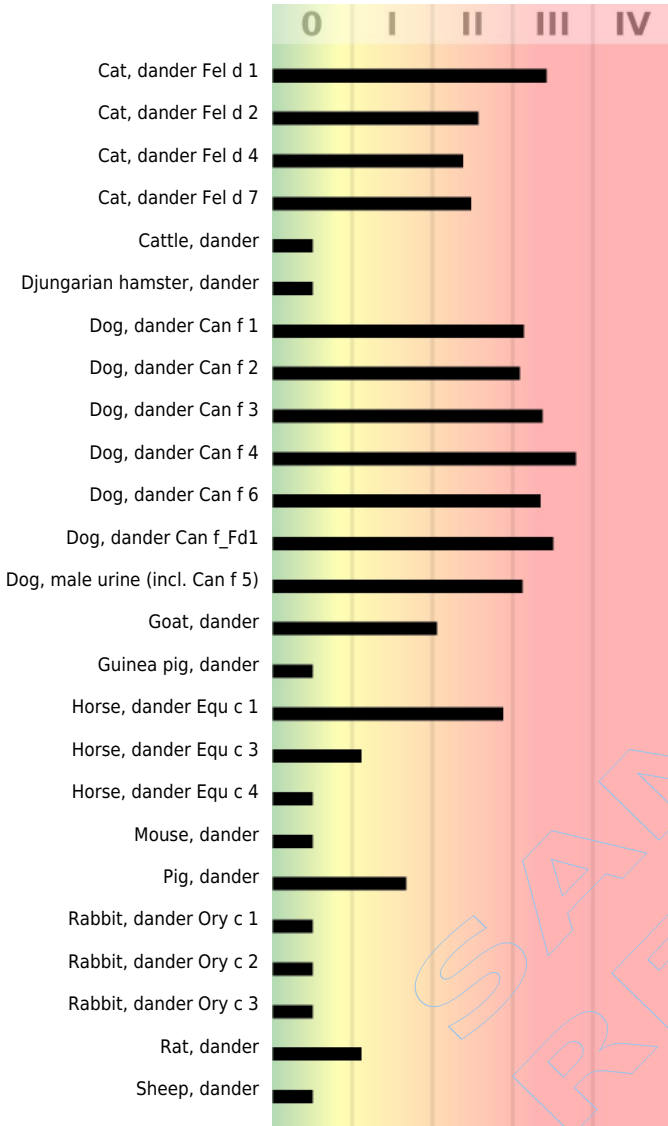
Sex:  
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Sample Type: Serum  
 Date of Birth:  
 Completed:

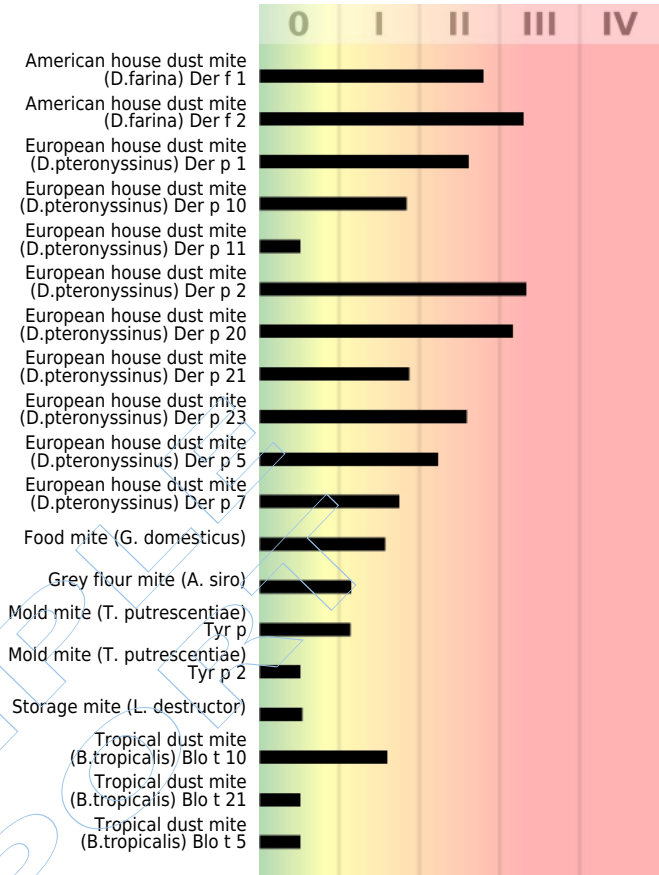
IgE

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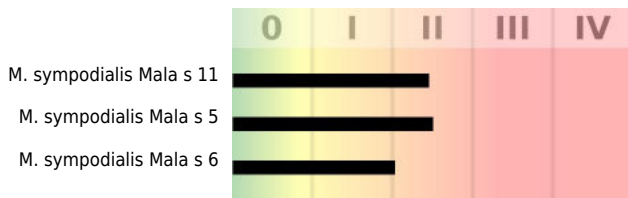
**Dander and Epithelia**



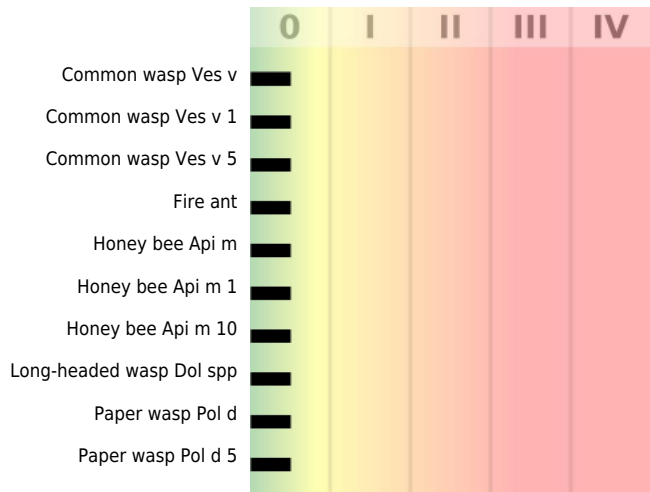
**Mites**



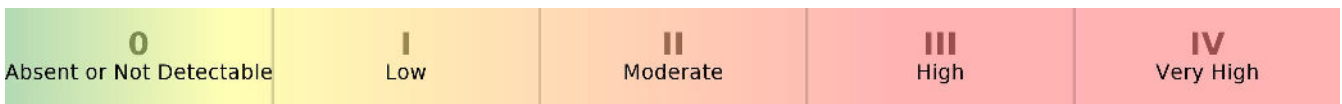
**Skin Yeasts**



**Insect Venoms**



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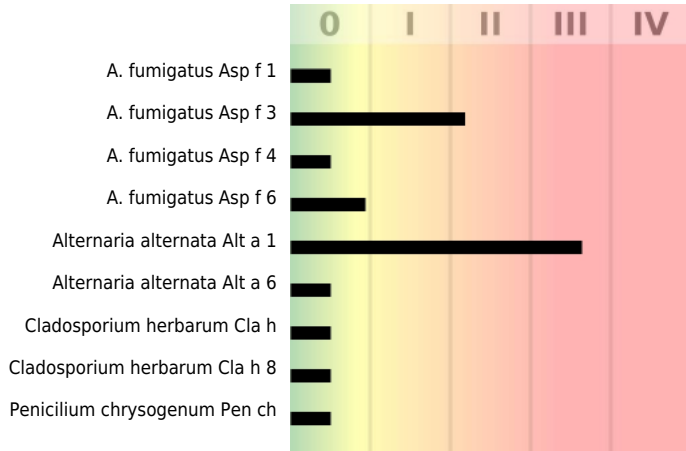
Sex:  
 Age:  
 Received:

Sample Type: Serum  
 Date of Birth:  
 Completed:

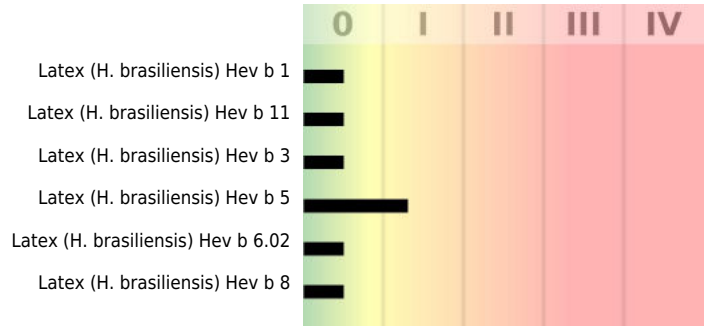
IgE

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**Molds**



**Latex**



SAMPLE REPORT

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| 0                        | I   | II       | III  | IV        |
|--------------------------|-----|----------|------|-----------|
| Absent or Not Detectable | Low | Moderate | High | Very High |

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Sex:  
 Age:  
 Received:

Sample Type: Serum  
 Date of Birth:  
 Completed:

IgE

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Trees

| Antigen Name                  | Analyte | Class    | Value       | Class Cut Off |
|-------------------------------|---------|----------|-------------|---------------|
| Acacia Aca m                  | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Alder Aln g 1                 | IgE     | Low      | 0.45 kU/L   | 0.30 - <1.0   |
| Alder Aln g 4                 | IgE     | High     | 9.77 kU/L   | 5.0 - <15.0   |
| Arizona cypress               | IgE     | Moderate | 1.40 kU/L   | 1.0 - <5.0    |
| Ash Fra e                     | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Ash Fra e 1                   | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Beech Fag s 1                 | IgE     | Low      | 0.56 kU/L   | 0.30 - <1.0   |
| Cottonwood                    | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Cypress                       | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Date palm Pho d 2             | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Elm                           | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Hazel (Corylus avellana)      | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Hazel Cor a 1.0103            | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| London planetree Pla a 1      | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| London planetree Pla a 2      | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| London planetree Pla a 3      | IgE     | Low      | 0.41 kU/L   | 0.30 - <1.0   |
| Mountain cedar                | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Mulberry tree                 | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Olive Ole e 1                 | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Olive Ole e 9                 | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Paper mulberry                | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Silver birch Bet v 1          | IgE     | Moderate | 1.69 kU/L   | 1.0 - <5.0    |
| Silver birch Bet v 2          | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Silver birch Bet v 6          | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Sugi (Japanese Cedar) Cry j 1 | IgE     | Moderate | 2.09 kU/L   | 1.0 - <5.0    |
| Tree of heaven                | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Walnut                        | IgE     | Low      | 0.36 kU/L   | 0.30 - <1.0   |
| Weeping fig (F. benjamina)    | IgE     | Absent   | < 0.30 kU/L | <0.30         |

CCD Marker

| Antigen Name                     | Analyte | Class  | Value       | Class Cut Off |
|----------------------------------|---------|--------|-------------|---------------|
| CCD (Hom s lactoferrin) Hom s LF | IgE     | Absent | < 0.30 kU/L | <0.30         |

Grasses

| Antigen Name                | Analyte | Class    | Value       | Class Cut Off |
|-----------------------------|---------|----------|-------------|---------------|
| Bahia Grass                 | IgE     | Moderate | 2.11 kU/L   | 1.0 - <5.0    |
| Bermuda Grass               | IgE     | Low      | 0.95 kU/L   | 0.30 - <1.0   |
| Bermuda grass Cyn d 1       | IgE     | Moderate | 2.40 kU/L   | 1.0 - <5.0    |
| Common Reed Grass Phr c     | IgE     | Low      | 0.38 kU/L   | 0.30 - <1.0   |
| Cultivated Rye Grass        | IgE     | Low      | 0.72 kU/L   | 0.30 - <1.0   |
| Perennial Rye Grass Lol p 1 | IgE     | Moderate | 3.38 kU/L   | 1.0 - <5.0    |
| Timothy Grass Phl p 1       | IgE     | Moderate | 4.46 kU/L   | 1.0 - <5.0    |
| Timothy Grass Phl p 12      | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Timothy Grass Phl p 2       | IgE     | Low      | 0.80 kU/L   | 0.30 - <1.0   |
| Timothy Grass Phl p 5.0101  | IgE     | Moderate | 3.16 kU/L   | 1.0 - <5.0    |
| Timothy Grass Phl p 6       | IgE     | Low      | 0.67 kU/L   | 0.30 - <1.0   |
| Timothy Grass Phl p 7       | IgE     | High     | 6.62 kU/L   | 5.0 - <15.0   |

Weeds

| Antigen Name             | Analyte | Class  | Value       | Class Cut Off |
|--------------------------|---------|--------|-------------|---------------|
| Annual mercury Mer a 1   | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Common Ragweed           | IgE     | Low    | 0.81 kU/L   | 0.30 - <1.0   |
| English Plantain         | IgE     | Absent | < 0.30 kU/L | <0.30         |
| English plantain Pla l 1 | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Lamb's Quarters          | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Lamb's Quarters Che a 1  | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Mugwort Art v            | IgE     | Low    | 0.55 kU/L   | 0.30 - <1.0   |
| Mugwort Art v 1          | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Mugwort Art v 3          | IgE     | Low    | 0.79 kU/L   | 0.30 - <1.0   |

Weeds (Continued)

| Antigen Name            | Analyte | Class    | Value       | Class Cut Off |
|-------------------------|---------|----------|-------------|---------------|
| Nettle Urt d            | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Ragweed Amb a 1         | IgE     | Moderate | 2.40 kU/L   | 1.0 - <5.0    |
| Ragweed Amb a 4         | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Rough Pigweed           | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Russian Thistle         | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Russian thistle Sal k 1 | IgE     | Low      | 0.41 kU/L   | 0.30 - <1.0   |
| Wall pellitory Par j    | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Wall pellitory Par j 2  | IgE     | Absent   | < 0.30 kU/L | <0.30         |

Dander and Epithelia

| Antigen Name                    | Analyte | Class    | Value       | Class Cut Off |
|---------------------------------|---------|----------|-------------|---------------|
| Cat, dander Fel d 1             | IgE     | High     | 9.16 kU/L   | 5.0 - <15.0   |
| Cat, dander Fel d 2             | IgE     | Moderate | 3.28 kU/L   | 1.0 - <5.0    |
| Cat, dander Fel d 4             | IgE     | Moderate | 2.50 kU/L   | 1.0 - <5.0    |
| Cat, dander Fel d 7             | IgE     | Moderate | 2.92 kU/L   | 1.0 - <5.0    |
| Cattle, dander                  | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Djungarian hamster, dander      | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Dog, dander Can f 1             | IgE     | High     | 6.42 kU/L   | 5.0 - <15.0   |
| Dog, dander Can f 2             | IgE     | High     | 5.93 kU/L   | 5.0 - <15.0   |
| Dog, dander Can f 3             | IgE     | High     | 8.71 kU/L   | 5.0 - <15.0   |
| Dog, dander Can f 4             | IgE     | High     | 12.87 kU/L  | 5.0 - <15.0   |
| Dog, dander Can f 6             | IgE     | High     | 8.46 kU/L   | 5.0 - <15.0   |
| Dog, dander Can f_Fd1           | IgE     | High     | 10.11 kU/L  | 5.0 - <15.0   |
| Dog, male urine (incl. Can f 5) | IgE     | High     | 6.16 kU/L   | 5.0 - <15.0   |
| Goat, dander                    | IgE     | Moderate | 1.21 kU/L   | 1.0 - <5.0    |
| Guinea pig, dander              | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Horse, dander Equ c 1           | IgE     | Moderate | 4.53 kU/L   | 1.0 - <5.0    |
| Horse, dander Equ c 3           | IgE     | Low      | 0.38 kU/L   | 0.30 - <1.0   |
| Horse, dander Equ c 4           | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Mouse, dander                   | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Pig, dander                     | IgE     | Low      | 0.77 kU/L   | 0.30 - <1.0   |
| Rabbit, dander Ory c 1          | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Rabbit, dander Ory c 2          | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Rabbit, dander Ory c 3          | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Rat, dander                     | IgE     | Low      | 0.38 kU/L   | 0.30 - <1.0   |
| Sheep, dander                   | IgE     | Absent   | < 0.30 kU/L | <0.30         |

Skin Yeasts

| Antigen Name             | Analyte | Class    | Value     | Class Cut Off |
|--------------------------|---------|----------|-----------|---------------|
| M. sympodialis Mala s 11 | IgE     | Moderate | 2.81 kU/L | 1.0 - <5.0    |
| M. sympodialis Mala s 5  | IgE     | Moderate | 2.98 kU/L | 1.0 - <5.0    |
| M. sympodialis Mala s 6  | IgE     | Moderate | 1.06 kU/L | 1.0 - <5.0    |

Mites

| Antigen Name                                       | Analyte | Class    | Value       | Class Cut Off |
|--|---------|----------|-------------|---------------|
| American house dust mite (D.farina) Der f 1        | IgE     | Moderate | 4.17 kU/L   | 1.0 - <5.0    |
| American house dust mite (D.farina) Der f 2        | IgE     | High     | 7.93 kU/L   | 5.0 - <15.0   |
| European house dust mite (D.pteronysinus) Der p 1  | IgE     | Moderate | 3.43 kU/L   | 1.0 - <5.0    |
| European house dust mite (D.pteronysinus) Der p 10 | IgE     | Low      | 0.88 kU/L   | 0.30 - <1.0   |
| European house dust mite (D.pteronysinus) Der p 11 | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| European house dust mite (D.pteronysinus) Der p 2  | IgE     | High     | 8.27 kU/L   | 5.0 - <15.0   |
| European house dust mite (D.pteronysinus) Der p 20 | IgE     | High     | 6.62 kU/L   | 5.0 - <15.0   |
| European house dust mite (D.pteronysinus) Der p 21 | IgE     | Low      | 0.90 kU/L   | 0.30 - <1.0   |
| European house dust mite (D.pteronysinus) Der p 23 | IgE     | Moderate | 3.32 kU/L   | 1.0 - <5.0    |

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**Completed:**

IgE XXXXXXXXXX

CLIA #: 50D0965661  
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### Mites (Continued)

| Antigen Name                                       | Analyte | Class    | Value       | Class Cut Off |
|--|---------|----------|-------------|---------------|
| European house dust mite (D.pteronyssinus) Der p 5 | IgE     | Moderate | 1.89 kU/L   | 1.0 - <5.0    |
| European house dust mite (D.pteronyssinus) Der p 7 | IgE     | Low      | 0.82 kU/L   | 0.30 - <1.0   |
| Food mite (G. domesticus)                          | IgE     | Low      | 0.69 kU/L   | 0.30 - <1.0   |
| Grey flour mite (A. siro)                          | IgE     | Low      | 0.40 kU/L   | 0.30 - <1.0   |
| Mold mite (T. putrescentiae) Tyr p                 | IgE     | Low      | 0.39 kU/L   | 0.30 - <1.0   |
| Mold mite (T. putrescentiae) Tyr p 2               | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Storage mite (L. destructor)                       | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Tropical dust mite (B.tropicalis) Blo t 10         | IgE     | Low      | 0.71 kU/L   | 0.30 - <1.0   |
| Tropical dust mite (B.tropicalis) Blo t 21         | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Tropical dust mite (B.tropicalis) Blo t 5          | IgE     | Absent   | < 0.30 kU/L | <0.30         |

### Insect Venoms

| Antigen Name             | Analyte | Class  | Value       | Class Cut Off |
|--------------------------|---------|--------|-------------|---------------|
| Common wasp Ves v        | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Common wasp Ves v 1      | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Common wasp Ves v 5      | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Fire ant                 | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Honey bee Api m          | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Honey bee Api m 1        | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Honey bee Api m 10       | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Long-headed wasp Dol spp | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Paper wasp Pol d         | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Paper wasp Pol d 5       | IgE     | Absent | < 0.30 kU/L | <0.30         |

### Molds

| Antigen Name                   | Analyte | Class    | Value       | Class Cut Off |
|--------------------------------|---------|----------|-------------|---------------|
| A. fumigatus Asp f 1           | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| A. fumigatus Asp f 3           | IgE     | Moderate | 1.72 kU/L   | 1.0 - <5.0    |
| A. fumigatus Asp f 4           | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| A. fumigatus Asp f 6           | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Alternaria alternata Alt a 1   | IgE     | High     | 11.36 kU/L  | 5.0 - <15.0   |
| Alternaria alternata Alt a 6   | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Cladosporium herbarum Cla h    | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Cladosporium herbarum Cla h 8  | IgE     | Absent   | < 0.30 kU/L | <0.30         |
| Penicillium chrysogenum Pen ch | IgE     | Absent   | < 0.30 kU/L | <0.30         |

### Latex

| Antigen Name                       | Analyte | Class  | Value       | Class Cut Off |
|------------------------------------|---------|--------|-------------|---------------|
| Latex (H. brasiliensis) Hev b 1    | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Latex (H. brasiliensis) Hev b 11   | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Latex (H. brasiliensis) Hev b 3    | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Latex (H. brasiliensis) Hev b 5    | IgE     | Low    | 0.51 kU/L   | 0.30 - <1.0   |
| Latex (H. brasiliensis) Hev b 6.02 | IgE     | Absent | < 0.30 kU/L | <0.30         |
| Latex (H. brasiliensis) Hev b 8    | IgE     | Absent | < 0.30 kU/L | <0.30         |

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IgE ██████████

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Higher levels of IgE have been associated with increased allergic reactivity. However, higher levels of IgE may or may not present with expected symptoms of allergy if there are also higher levels of IgG4 for the same antigen. IgG4 is considered an IgE "blocking antibody", and a rise in IgG4 levels has been associated with successful desensitization therapy in human studies. IgG4 testing may further guide clinical patient management.

Carbohydrate cross-determinants (CCDs) may confound IgE and IgG results. CCDs are glycoprotein side-chains found primarily in plants and insects, and they are strongly cross-reactive to other similar plant and insect antigens. IgE antibodies can form against CCDs but have not been documented to contribute to allergic reactions in humans. A biomarker for CCD interference has been included on this test; The sample diluent in this test contains CCD inhibitor. The CCD inhibition efficiency is 85%. If the CCD marker is > 0.3 kU/mL, the CCDs may be confounding results.

CCD confounding generally raises the reaction class of plant-based antigens (most/all high), while animal-based antigens react as expected (mix of lows and highs). If CCD confounding is suspected, consider ordering the Anti-CCD absorbant follow-up test, which can bind the CCDs in the serum so that clinically relevant IgE reactivity can be evaluated.

### References:

Altmann F. Coping with cross-reactive carbohydrate determinants in allergy diagnosis. *Allergo J Int.* 2016;25(4):98-105.

Bianchini R, Karagiannis SN, Jordakieva G, Jensen-Jarolim E. The Role of IgG4 in the Fine Tuning of Tolerance in IgE-Mediated Allergy and Cancer. *Int J Mol Sci.* 2020 Jul 16;21(14):5017.

Celik-Bilgili S, Mehl A, Verstege A, Staden U, Nocon M, Beyer K, Niggemann B. The predictive value of specific immunoglobulin E levels in serum for the outcome of oral food challenges. *Clin Exp Allergy.* 2005 Mar;35(3):268-73.

Jin C, Hantusch B, Hemmer W, Stadlmann J, Altmann F. Affinity of IgE and IgG against cross-reactive carbohydrate determinants on plant and insect glycoproteins. *J Allergy Clin Immunol.* 2008 Jan;121(1):185-190.e2.

Stylianou E, Ueland T, Borchsenius F, Michelsen AE, Øvstebø R, Mollnes TE, Skjøsberg OH, Aukrust P. Specific allergen immunotherapy: effect on IgE, IgG4 and chemokines in patients with allergic rhinitis. *Scand J Clin Lab Invest.* 2016;76(2):118-27

SALE REPORT

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