

**Provider:** Sample Report  
**Patient:**  
**Accession #:**  
**Collected:**

**Sex:**  
**Age:**  
**Received:**

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

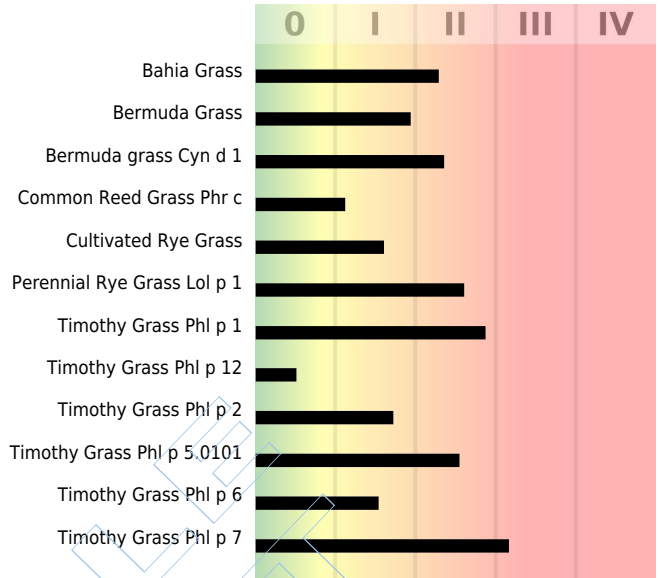
IgE ██████████

CLIA #: 50D0965661  
CAP accredited

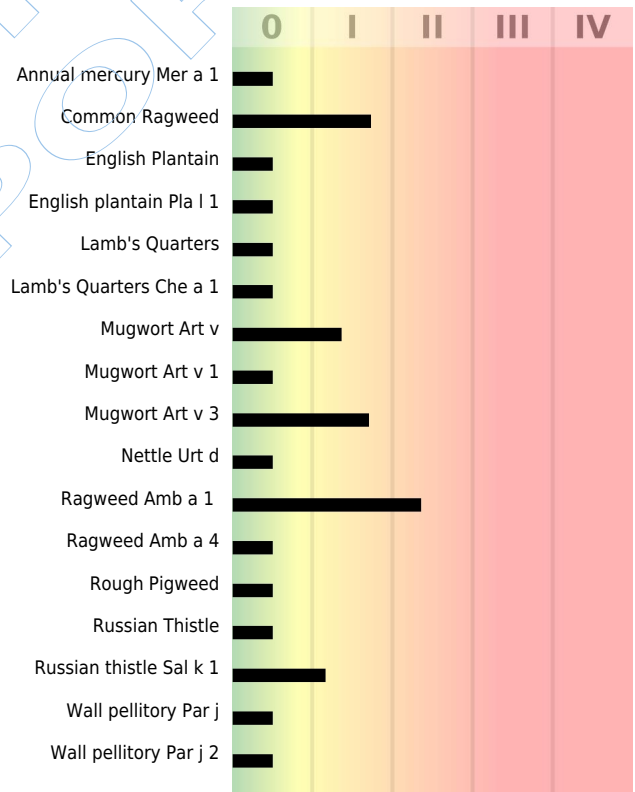
**Trees**



**Grasses**



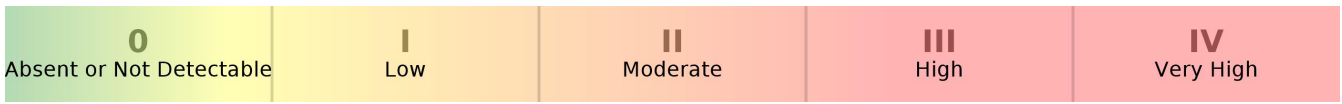
**Weeds**



**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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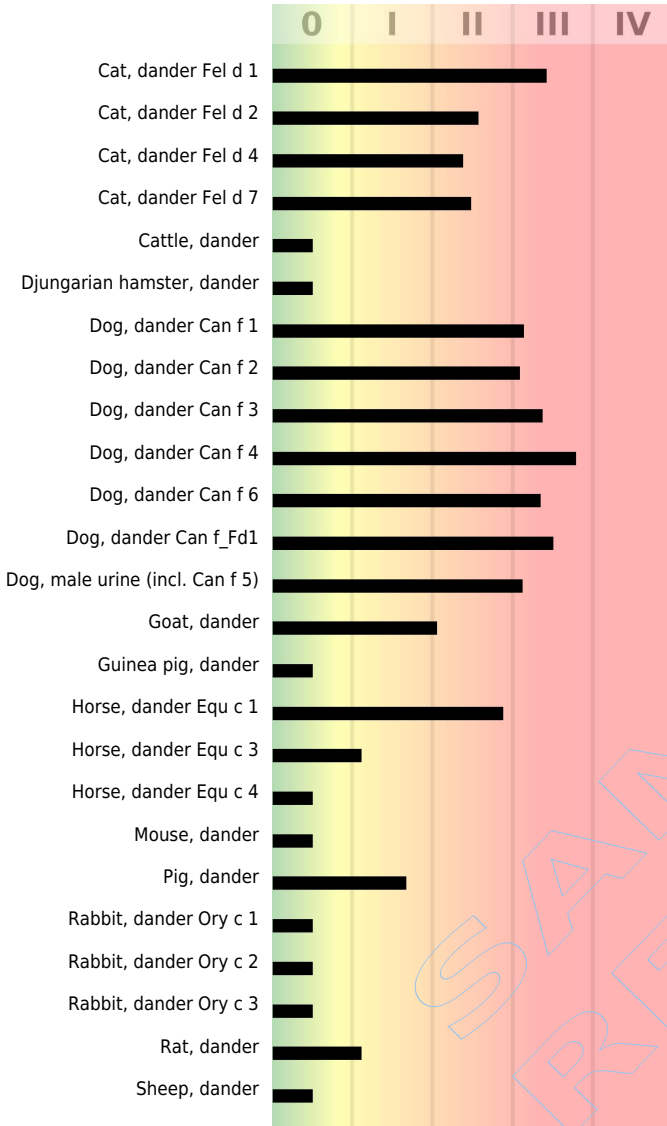
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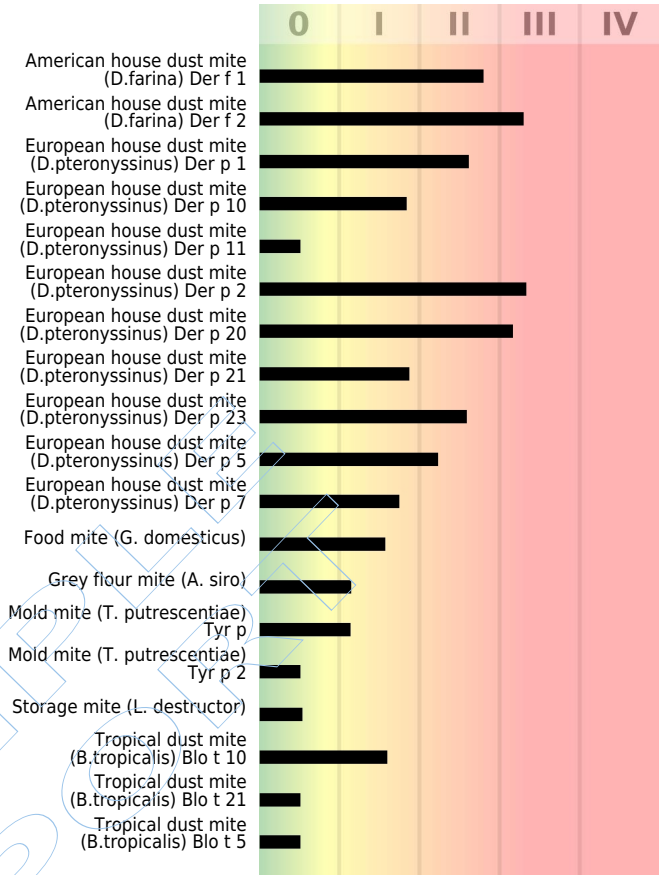
IgE [REDACTED]

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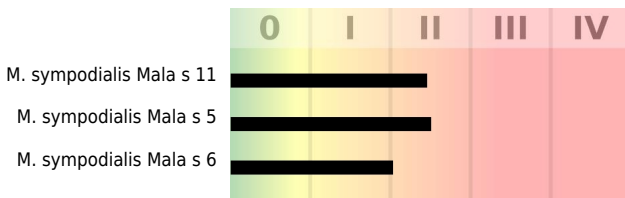
**Dander and Epithelia**



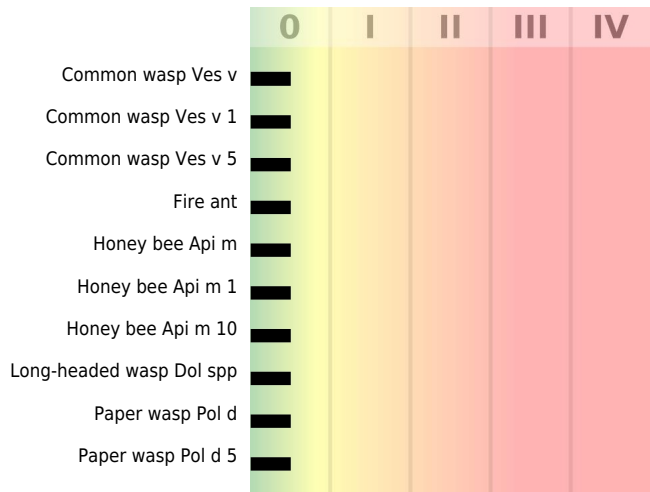
**Mites**



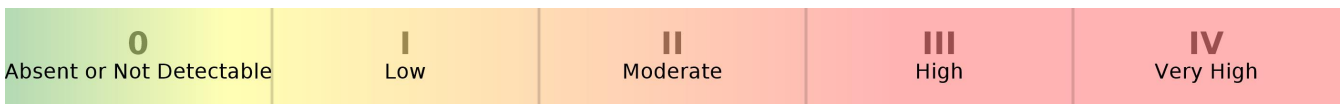
**Skin Yeasts**



**Insect Venoms**



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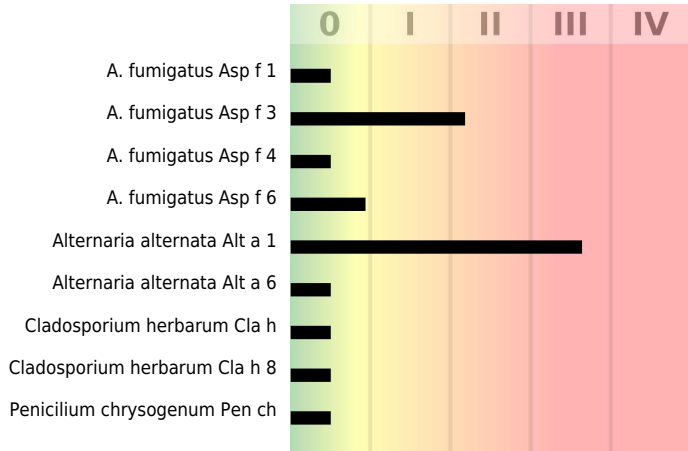
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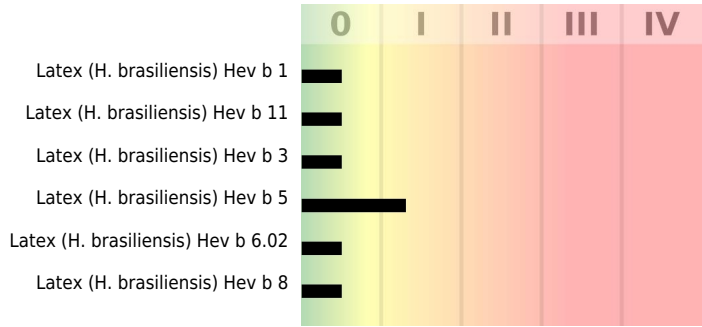
IgE [REDACTED]

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**Molds**



**Latex**



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

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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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IgE XXXXXXXXXX

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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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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, Skjønberg 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

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