


<p>PATIENTCODE ABC12345</p> <p>PATIENTNAME John Doe</p> <p>SAMPLE CODE abcdefg</p> <p>QR-CODE 98765</p> <p>ALLERGENS 300</p> <p>TEST METHOD ALEX³</p>	<p>DOCTOR INFORMATION +</p> <p>ANALYSISDATE 01/01/2026</p> <p>PRINT DATE 01/01/2026</p>	<p>SCAN TO ACCESS YOUR RESULTS ONLINE</p>  <p>Nutrition tips, lifestyle ideas & more – tailored to your results!</p> <p>Alternative access p.madx.com</p> <p>Your access code abc 123 def 456</p>
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Total IgE result: 2053 kU/L

Reference range total IgE
Adults < 100 kU/L

PATIENT CODE
ABC12345

PATIENT NAME
John Doe

QR-CODE
98765

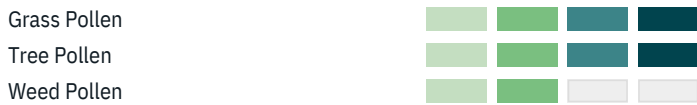
TEST METHOD
ALEX³



LAB REPORT

Summary of detectable sensitisations

POLLEN



MITES



DANDER & EPITHELIA



MICROORGANISMS



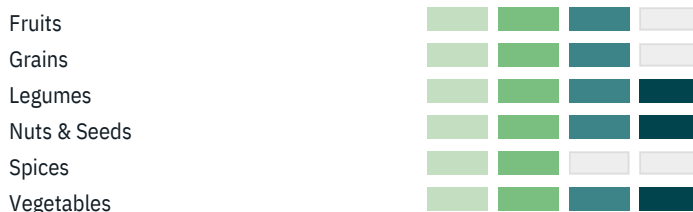
INSECTS



VENOMS



PLANT-BASED FOOD



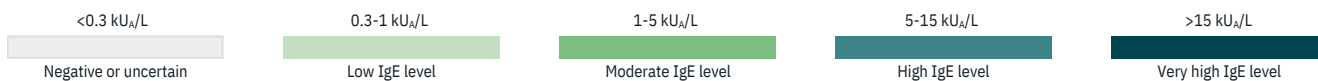
ANIMAL-BASED FOOD



OTHERS



Measured IgE concentration ranges per allergen group





Summary of all results. Please note that no components were added to the respective extracts (i.e., the extracts were not spiked).

Pollen

Grass Pollen

Name	E/M	Allergen	Allergen family	kU _A /L
Timothy grass	⊙	Phl p 1	β-Expansin	42.99
	⊙	Phl p 2	Expansin	26.63
Maize pollen	⊙	Zea m 1	β-Expansin	25.10
Bermuda grass	⊙	Cyn d 1	β-Expansin	15.61
Timothy grass	⊙	Phl p 5.0101	Grass Group 5/6	4.93
Rye pollen	⊘	Sec c_pollen		1.63
Bahia grass	⊘	Pas n		0.17
Timothy grass	⊙	Phl p 7	Polcalcin	0.14
	⊙	Phl p 6	Grass Group 5/6	< 0.10
	⊙	Phl p 12	Profilin	< 0.10
Common reed	⊘	Phr c		< 0.10

Tree Pollen

Name	E/M	Allergen	Allergen family	kU _A /L
Alder	⊙	Aln g 1	PR-10	47.60
Ash	⊙	Fra e 1	Ole e 1 Family	47.42
Silver birch	⊙	Bet v 1	PR-10	46.55
Olive	⊙	Ole e 1	Ole e 1 Family	43.19
Oak	⊙	Que a 1	PR-10	30.63
Sugi	⊙	Cry j 1	Pectate Lyase	3.01
Arizona cypress	⊙	Cup a 1	Pectate Lyase	1.01
London plane tree	⊙	Pla a 3	nsLTP	0.91
Olive	⊙	Ole e 7	nsLTP	0.49
London plane tree	⊙	Pla a 1	Plant Invertase	0.14
Acacia	⊘	Aca m		< 0.10
Tree of heaven	⊘	Ail a		< 0.10
Alder	⊙	Aln g 4	Polcalcin	< 0.10
Silver birch	⊙	Bet v 6	Isoflavon Reductase	< 0.10
	⊙	Bet v 7	Cyclophilin	< 0.10
Paper mulberry	⊘	Bro pa		< 0.10
Cypress	⊘	Cup s		< 0.10
Walnut	⊘	Jug r_pollen		< 0.10
Mountain cedar	⊘	Jun a		< 0.10
Olive	⊙	Ole e 9	β-1,3-Glucanase	< 0.10
London plane tree	⊙	Pla a 2	Polygalacturonase	< 0.10



Weed Pollen

Name	E/M	Allergen	Allergen family	kU _A /L
Mugwort	⊙	Art v 3	nsLTP	1.86
Ragweed	⊘	Amb a		0.10
Pigweed	⊘	Ama r		< 0.10
Ragweed	⊙	Amb a 1	Pectate Lyase	< 0.10
	⊙	Amb a 4	Plant Defensin	< 0.10
Mugwort	⊘	Art v		< 0.10
	⊙	Art v 1	Plant Defensin	< 0.10
Hemp	⊘	Can s		< 0.10
	⊙	Can s 3	nsLTP	< 0.10
Lamb's quarter	⊘	Che a		< 0.10
	⊙	Che a 1	Ole e 1 Family	< 0.10
Wall pellitory	⊘	Par j		< 0.10
	⊙	Par j 2	nsLTP	< 0.10
Ribwort	⊙	Pla l 1	Ole e 1 Family	< 0.10
Russian thistle	⊘	Sal k		< 0.10
	⊙	Sal k 1	Pectin Methylesterase	< 0.10
	⊙	Sal k 5	Ole e 1 Family	< 0.10

Mites

House Dust Mites & Storage Mites

Name	E/M	Allergen	Allergen family	kU _A /L
European house dust mite	⊙	Der p 2	NPC2 Family	> 50.00
American house dust mite	⊙	Der f 2	NPC2 Family	> 50.00
European house dust mite	⊙	Der p 21	Mite Group 5/21	47.96
Blomia tropicalis	⊙	Blo t 5	Mite Group 5/21	28.78
	⊙	Blo t 10	Tropomyosin	0.65
Tyrophagus putrescentiae	⊙	Tyr p 10	Tropomyosin	0.60
Blomia tropicalis	⊙	Blo t 21	Mite Group 5/21	0.32
Tyrophagus putrescentiae	⊙	Tyr p 2	NPC2 Family	0.29
Glycyphagus domesticus	⊙	Gly d 2	NPC2 Family	0.17
European house dust mite	⊙	Der p 5	Mite Group 5/21	0.11
Acarus siro	⊘	Aca s		< 0.10
Blomia tropicalis	⊙	Blo t 2	NPC2 Family	< 0.10
American house dust mite	⊙	Der f 1	Cysteine Protease	< 0.10
	⊙	Der f 15	Chitinase	< 0.10
	⊙	Der f 18	Chitinase-like Protein	< 0.10
European house dust mite	⊙	Der p 1	Cysteine Protease	< 0.10
	⊙	Der p 7	Mite Group 7	< 0.10
	⊙	Der p 10	Tropomyosin	< 0.10
	⊙	Der p 20	Arginine Kinase	< 0.10



Name	E/M	Allergen	Allergen family	kU _A /L
	<input checked="" type="radio"/>	Der p 23	Peritrophin-like Protein Domain	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Lepidoglyphus destructor	<input checked="" type="radio"/>	Lep d 2	NPC2 Family	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Tyrophagus putrescentiae	<input checked="" type="radio"/>	Tyr p		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10

Dander & Epithelia

Farm Animals

Name	E/M	Allergen	Allergen family	kU _A /L
Cattle	<input checked="" type="radio"/>	Bos d 2	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Goat	<input checked="" type="radio"/>	Cap h_epithelia		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Horse	<input checked="" type="radio"/>	Equ c 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Equ c 3	Serum Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Equ c 4	Latherin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Pig	<input checked="" type="radio"/>	Sus d_epithelia		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10

Pets

Name	E/M	Allergen	Allergen family	kU _A /L
Dog	<input checked="" type="radio"/>	Can f Fel d 1 like	Uteroglobin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Dog urine (incl. Can f 5)	<input checked="" type="radio"/>	Can f_male urine		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Dog	<input checked="" type="radio"/>	Can f 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Can f 2	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Can f 3	Serum Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Can f 4	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Can f 6	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Cav p 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Cat	<input checked="" type="radio"/>	Fel d 1	Uteroglobin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Fel d 2	Serum Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Fel d 4	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Fel d 7	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Golden hamster	<input checked="" type="radio"/>	Mes a 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Mouse	<input checked="" type="radio"/>	Mus m 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Rabbit	<input checked="" type="radio"/>	Ory c 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Ory c 2	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
	<input checked="" type="radio"/>	Ory c 3	Uteroglobin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Djungarian hamster	<input checked="" type="radio"/>	Phod s 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10
Rat	<input checked="" type="radio"/>	Rat n 1	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> < 0.10

Microorganisms

Fungal Spores & Yeast



Name	E/M	Allergen	Allergen family	kU _A /L
Alternaria alternata	⊙	Alt a 1	Alt a 1 Family	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #c8e6c9;"></div><div style="width: 20px; height: 10px; background-color: #8bc34a;"></div><div style="width: 20px; height: 10px; background-color: #4db6ac;"></div><div style="width: 20px; height: 10px; background-color: #004d40;"></div></div> 26.08
	⊙	Alt a 6	Enolase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Aspergillus fumigatus	⊙	Asp f 1	Mitogillin Family	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Asp f 3	Peroxisomal Protein	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Asp f 4	Unknown	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Asp f 6	Mn Superoxide Dismutase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Asp f 8	Ribosomal Protein P2	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Cladosporium herbarum	⊙	Cla h		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Cla h 8	Mannitol Dehydrogenase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Malassezia sympodialis	⊙	Mala s 5	Unknown	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Mala s 6	Cyclophilin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Mala s 11	Mn Superoxide Dismutase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Mala s 13	Thioredoxin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Penicillium chrysogenum	⊙	Pen ch		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10

Insects

Cockroach

Name	E/M	Allergen	Allergen family	kU _A /L
American cockroach	⊙	Per a 7	Tropomyosin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #c8e6c9;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> 0.38
German cockroach	⊙	Bla g 1	Nitrile Specifier	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Bla g 2	Aspartic Protease	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Bla g 4	Lipocalin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Bla g 5	Glutathione S-Transferase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Bla g 9	Arginine Kinase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
American cockroach	⊙	Per a		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Per a 6	Troponin C	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10

Venoms

Ant, Bee, Wasp, Hornet

Name	E/M	Allergen	Allergen family	kU _A /L
Honey bee	⊙	Api m		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Api m 1	Phospholipase A2	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Api m 2	Hyaluronidase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	Api m	Icarapin Variant 2	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Bald-faced Hornet	⊙	10 Dol	Hyaluronidase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	m 2 Dol	Antigen 5	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Paper wasp	⊙	m 5 Pol		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
	⊙	d Pol d 5	Antigen 5	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Fire ant	⊙	Sol spp		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10
Common wasp	⊙	Ves v 1	Phospholipase A1	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div><div style="width: 20px; height: 10px; background-color: #e0e0e0;"></div></div> < 0.10



Name	E/M	Allergen	Allergen family	kU _A /L
	<input checked="" type="radio"/>	Ves v 5	Antigen 5	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> < 0.10

Plant-Based Food

Fruits

Name	E/M	Allergen	Allergen family	kU _A /L
Apple	<input checked="" type="radio"/>	Mal d 1	PR-10	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #008000;"></div><div style="width: 20px; height: 10px; background-color: #004D40;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 11.15
Grape	<input checked="" type="radio"/>	Vit v 1	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 4.43
Cherry	<input checked="" type="radio"/>	Pru av 3	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 2.88
Kiwi Peach	<input checked="" type="radio"/>	Act d 10	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 2.09
Pear Apple	<input checked="" type="radio"/>	Pru p 3	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 2.01
Coconut	<input checked="" type="radio"/>	Pyr c		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 1.76
Strawberry	<input checked="" type="radio"/>	Mal d 3	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 1.62
Kiwi	<input checked="" type="radio"/>	Coc n 1	7/8S Globulin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 1.39
	<input checked="" type="radio"/>	Fra a 3	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.85 <
	<input checked="" type="radio"/>	Act d 1	Cysteine Protease	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
	<input checked="" type="radio"/>	Act d 2	Thaumatococcus-like Protein	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
	<input checked="" type="radio"/>	Act d 5	Kiwelin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Papaya	<input checked="" type="radio"/>	Car p		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Muskmelon	<input checked="" type="radio"/>	Cuc m 2	Profilin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Fig	<input checked="" type="radio"/>	Fic c		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Mango	<input checked="" type="radio"/>	Man i 1	Class 4 Chitinase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Banana	<input checked="" type="radio"/>	Mus a 2	Class 1 Chitinase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
	<input checked="" type="radio"/>	Mus a 5	β-1,3-Glucanase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Avocado	<input checked="" type="radio"/>	Pers a		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
	<input checked="" type="radio"/>	Pers a 1	Class 1 Chitinase	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10 <
Peach	<input checked="" type="radio"/>	Pru p 7	Gibberellin-regulated Protein	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.10

Grains

Name	E/M	Allergen	Allergen family	kU _A /L
Lupine seed	<input checked="" type="radio"/>	Lup a		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #008000;"></div><div style="width: 20px; height: 10px; background-color: #004D40;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 7.37
Maize	<input checked="" type="radio"/>	Zea m 14	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 2.65
Oat	<input checked="" type="radio"/>	Ave s		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 1.30
Buckwheat	<input checked="" type="radio"/>	Fag e		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 1.20
Spelt	<input checked="" type="radio"/>	Tri s		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 1.00
Barley	<input checked="" type="radio"/>	Hor v		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.59
Quinoa	<input checked="" type="radio"/>	Che q		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.39
Wheat	<input checked="" type="radio"/>	Tri a 14	nsLTP	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #90EE90;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.30
Millet	<input checked="" type="radio"/>	Pan m		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> 0.21
Buckwheat	<input checked="" type="radio"/>	Fag e 2	2S Albumin	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> < 0.10
Cultivated rye	<input checked="" type="radio"/>	Sec c_flour		<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> < 0.10
Wheat	<input checked="" type="radio"/>	Tri a aA_TI	α-Amylase Trypsin-Inhibitor	<div style="display: flex; gap: 5px;"><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div><div style="width: 20px; height: 10px; background-color: #ccc;"></div></div> < 0.10



Name	E/M	Allergen	Allergen family	kU _A /L
	⊙	Tri a 19	Ω-5-Gliadin	< 0.10
	⊙	Tri a 36	Low Molecular Weight Glutenin	< 0.10
	⊙	Tri a 37	α-Purothionin	< 0.10
Maize	⊙	Zea m		< 0.10

Legumes

Name	E/M	Allergen	Allergen family	kU _A /L
Peanut	⊙	Ara h 2	2S Albumin	> 50.00
	⊙	Ara h 6	2S Albumin	48.67
	⊙	Ara h 1	7/8S Globulin	48.61
	⊙	Ara h 3	11S Globulin	46.37
Pea	⊙	Pis s 2	7/8S Globulin	17.37
Soy	⊙	Gly m 5	7/8S Globulin	9.19
Pea	⊙	Pis s 1	7/8S Globulin	7.71
Soy	⊙	Gly m 6	11S Globulin	7.22
Chickpea	⊙	Cic a		6.90
Peanut	⊙	Ara h 8	PR-10	4.05
Lentil	⊙	Len c 1	7/8S Globulin	3.08
Soy	⊙	Gly m 4	PR-10	2.94
Peanut	⊙	Ara h 9	nsLTP	2.65
Lentil	⊙	Len c 3	nsLTP	1.53
Pea	⊙	Pis s 3	nsLTP	1.17
Peanut	⊙	Ara h 15	Oleosin	< 0.10
	⊙	Ara h 18	Cyclophilin	< 0.10
Soy	⊙	Gly m 8	2S Albumin	< 0.10

Nuts & Seeds

Name	E/M	Allergen	Allergen family	kU _A /L
Hazelnut	⊙	Cor a 1.0401	PR-10	48.61
Pecan	⊙	Car i		44.50
Walnut	⊙	Jug r 1	2S Albumin	43.57
Pecan	⊙	Car i 1	2S Albumin	43.24
Cashew	⊙	Ana o 3	2S Albumin	43.18
Walnut	⊙	Jug r 4	11S Globulin	29.92
Pecan	⊙	Car i 2 (256-386)	7/8S Globulin	28.07
Pistachio	⊙	Pis v 1	2S Albumin	27.99
Walnut	⊙	Jug r 2	7/8S Globulin	16.62
	⊙	Jug r 6	7/8S Globulin	15.43
Hazelnut	⊙	Cor a 11	7/8S Globulin	13.37
Macadamia	⊙	Mac i		10.82
Sesame	⊙	Ses i		6.27
Hazelnut	⊙	Cor a 14	2S Albumin	6.23



Name	E/M	Allergen	Allergen family	kU _A /L
Pecan	⊙	Car i 4	11S Globulin	5.24
Hazelnut	⊙	Cor a 9	11S Globulin	3.99
Pistachio	⊙	Pis v 2	11S Globulin	3.46
Cashew	⊙	Ana o 2	11S Globulin	3.41
Brazil nut	⋮	Ber e		2.95
Cashew	⊙	Ana o 1	7/8S Globulin	2.93
Pistachio	⊙	Pis v 3	7/8S Globulin	2.31
Almond	⋮	Pru du		1.90
Poppy seed	⋮	Pap s		1.33
Sunflower seed	⋮	Hel a		1.06
Sesame	⊙	Ses i 1	2S Albumin	1.00
Hazelnut	⊙	Cor a 8	nsLTP	0.71
Walnut	⊙	Jug r 3	nsLTP	0.50
Macadamia	⊙	Mac i 1.0101 (28-76)	α-Hairpinin	0.38
Brazil nut	⊙	Ber e 1	2S Albumin	< 0.10
Pumpkin seed	⋮	Cuc p		< 0.10
Sunflower seed	⊙	Hel a 3	nsLTP	< 0.10
Poppy seed	⊙	Pap s 1.0101 (27- 846)	α-Hairpinin	< 0.10
Pine nut	⋮	Pin p	2S Albumin	< 0.10
	⊙	Pin p 1	11S	< 0.10
Almond	⊙	Pru du 6	Globulin	< 0.10

Spices

Name	E/M	Allergen	Allergen family	kU _A /L
Mustard	⋮	Sin a		2.73
	⊙	Sin a 1	2S Albumin	0.41

Vegetables

Name	E/M	Allergen	Allergen family	kU _A /L
Celery	⊙	Api g 1	PR-10	18.55
	⊙	Api g 2	nsLTP	1.81
Potato	⋮	Sol t All		0.11
Onion	⋮	c All s		< 0.10
Garlic	⋮	Api g 6		< 0.10
Celery	⊙	Api g 7	nsLTP	< 0.10
	⊙	Sola l	Plant Defensin	< 0.10
Tomato	⋮	Sola t 6		< 0.10
	⊙		nsLTP	< 0.10

Animal-Based Food



Egg

Name	E/M	Allergen	Allergen family	kU _A /L
Egg white	⊙	Gal d 1	Ovomucoid	11.88
	⊙	Gal d 2	Ovalbumin	11.75
	⊘	Gal d_white		4.87
	⊙	Gal d 3	Ovotransferrin	2.17
Egg yolk	⊘	Gal d_yolk		2.11
Egg white	⊙	Gal d 4	Lysozyme C	0.17
Egg yolk	⊙	Gal d 5	Serum Albumin	< 0.10

Fish & Seafood

Name	E/M	Allergen	Allergen family	kU _A /L
Anisakis simplex	⊙	Ani s 1	Kunitz Serine Protease Inhibitor	1.66
Giant freshwater prawn	⊙	Mac r 1	Tropomyosin	1.18
Anisakis simplex	⊙	Ani s 3	Tropomyosin	0.99
Black tiger shrimp	⊙	Pen m 1	Tropomyosin	0.91
Crab	⊘	Chi spp		0.65
Shrimp	⊘	Lit spp		0.44
Northern prawn	⊘	Pan b		0.15
Herring	⊘	Clu h		< 0.10
	⊙	Clu h 1	β-Parvalbumin	< 0.10
Brown shrimp	⊙	Cra c 6	Troponin C	< 0.10
Carp	⊙	Cyp c 1	β-Parvalbumin	< 0.10
	⊙	Cyp c 2	Enolase	< 0.10
Atlantic cod	⊙	Gad m 1	β-Parvalbumin	< 0.10
Lobster	⊘	Hom g		< 0.10
Whiteleg shrimp	⊙	Lit v 7	Hemocyanin	< 0.10
Squid	⊘	Lol spp		< 0.10
Giant freshwater prawn	⊙	Mac r 2	Arginine Kinase	< 0.10
Black tiger shrimp	⊙	Pen m 2	Arginine Kinase	< 0.10
	⊙	Pen m 3	Myosin Light Chain	< 0.10
	⊙	Pen m 4	Sarcoplasmic Calcium-binding Protein	< 0.10
Thornback ray	⊘	Raj c		< 0.10
	⊙	Raj c Parvalbumin	α-Parvalbumin	< 0.10
Venus clam	⊘	Rud spp		< 0.10
Salmon	⊘	Sal s		< 0.10
	⊙	Sal s 1	β-Parvalbumin	< 0.10
	⊙	Sal s 6	Collagen	< 0.10
Atlantic mackerel	⊘	Sco s		< 0.10
	⊙	Sco s 1	β-Parvalbumin	< 0.10
Tuna	⊙	Thu a 1	β-Parvalbumin	< 0.10
Swordfish	⊙	Xip g 1	β-Parvalbumin	< 0.10



Meat

Name	E/M	Allergen	Allergen family	kU _A /L
House cricket	☰	Ach d		0.94
Mealworm	☰	Ten m		0.92
Migratory locust	☰	Loc m		0.25
Rabbit	☰	Ory c_meat		0.22
Beef	☰	Bos d_meat		< 0.10
	⊙	Bos d 6	Serum Albumin	< 0.10
Horse	☰	Equ c_meat		< 0.10
Chicken	☰	Gal d_meat		< 0.10
	⊙	Gal d 7	Myosin Light Chain	< 0.10
Turkey	☰	Mel g		< 0.10
Lamb	☰	Ovi a_meat		< 0.10
Pork	⊙	Sus d 1	Serum Albumin	< 0.10

Milk

Name	E/M	Allergen	Allergen family	kU _A /L
Cow's milk	☰	Bos d_milk		< 0.10
	⊙	Bos d 4	α-Lactalbumin	< 0.10
	⊙	Bos d 5	β-Lactoglobulin	< 0.10
	⊙	Bos d 8	Casein	< 0.10
	⊙	Bos d 9	α-S1 Casein	< 0.10
	⊙	Bos d 10	α-S2 Casein	< 0.10
	⊙	Bos d 11	β-Casein	< 0.10
	⊙	Bos d 12	κ-Casein	< 0.10
Camel's milk	☰	Cam d		< 0.10
Goat's milk	☰	Cap h_milk		< 0.10
Mare's milk	☰	Equ c_milk		< 0.10
Sheep's milk	☰	Ovi a_milk		< 0.10

Others

CCD

Name	E/M	Allergen	Allergen family	kU _A /L
Hom s Lactoferrin	⊙	Hom s LF	CCD	< 0.10

Ficus

Name	E/M	Allergen	Allergen family	kU _A /L
Weeping fig	☰	Fic b		< 0.10

Latex



Name	E/M	Allergen	Allergen family	kU _A /L
Latex	<input checked="" type="radio"/>	Hev b 5	Unknown	0.11
	<input checked="" type="radio"/>	Hev b 1	Rubber Elongation Factor	< 0.10
	<input checked="" type="radio"/>	Hev b 3	Small Rubber Particle Protein	< 0.10
	<input checked="" type="radio"/>	Hev b 6.02	Pro-Hevein	< 0.10
	<input checked="" type="radio"/>	Hev b 11	Class 1 Chitinase	< 0.10

Parasite

Name	E/M	Allergen	Allergen family	kU _A /L
Pigeon tick	<input checked="" type="radio"/>	Arg r 1	Lipocalin	< 0.10

Red meat

Name	E/M	Allergen	Allergen family	kU _A /L
Red meat	<input checked="" type="radio"/>	Alpha-GAL	α-Gal	< 0.10

Information to cross-reactive allergens

PR-10

PR-10 allergens show a high degree of cross-reactivity.

PR-10 inhalative:

The major birch pollen allergen, Bet v 1, represents the prototype of all PR-10 allergens and is the primary sensitiser in regions with birch pollen exposure. The presence of PR-10 allergens in Fagales tree pollen explains IgE cross-reactivity between pollen from hazel, alder, beech, oak and hornbeam.

PR-10 nutritive:

PR-10 allergens in raw fruits, nuts, vegetable and legumes can induce oral allergy syndrome and sometimes severe allergic reactions in sensitised individuals, if a high amount of the respective allergen is consumed. PR-10 allergens are not stable to processing.

Name	E/M	Allergen	Allergen family	kU _A /L
Hazelnut	<input checked="" type="radio"/>	Cor a 1.0401	PR-10	48.61
Alder	<input checked="" type="radio"/>	Aln g 1	PR-10	47.60
Silver birch	<input checked="" type="radio"/>	Bet v 1	PR-10	46.55
Oak	<input checked="" type="radio"/>	Que a 1	PR-10	30.63
Celery	<input checked="" type="radio"/>	Api g 1	PR-10	18.55
Apple	<input checked="" type="radio"/>	Mal d 1	PR-10	11.15
Peanut	<input checked="" type="radio"/>	Ara h 8	PR-10	4.05
Soy	<input checked="" type="radio"/>	Gly m 4	PR-10	2.94

nsLTP

nsLTPs show a high degree of cross-reactivity within plant family borders (e.g. stone-fruit, Rosaceae).

nsLTPs are the most prevalent plant-food allergens in Southern Europe. The clinical reactions can be systemic and severe, especially when not associated to birch pollinosis. Pru p 3, the major allergen of peach, plays a precursor role in the sensitization to other nsLTPs. Relevant nsLTPs containing plant-foods belong not only to Rosaceae family (incl. stone- and pomaceous fruit), but also to the nuts and legumes group, as well as to cereals such as wheat, maize and rice.

nsLTPs are stable to processing.

Name	E/M	Allergen	Allergen family	kU _A /L
Grape	<input checked="" type="radio"/>	Vit v 1	nsLTP	4.43
Cherry	<input checked="" type="radio"/>	Pru av 3	nsLTP	2.88
Peanut	<input checked="" type="radio"/>	Ara h 9	nsLTP	2.65
Maize	<input checked="" type="radio"/>	Zea m 14	nsLTP	2.65



Name	E/M	Allergen	Allergen family	kU _A /L
Kiwi	⊙	Act d 10	nsLTP	2.09
Peach	⊙	Pru p 3	nsLTP	2.01
Mugwort	⊙	Art v 3	nsLTP	1.86
Celery	⊙	Api g 2	nsLTP	1.81
Apple	⊙	Mal d 3	nsLTP	1.62
Lentil	⊙	Len c 3	nsLTP	1.53
Pea	⊙	Pis s 3	nsLTP	1.17
London plane tree	⊙	Pla a 3	nsLTP	0.91
Strawberry	⊙	Fra a 3	nsLTP	0.85
Hazelnut	⊙	Cor a 8	nsLTP	0.71
Walnut	⊙	Jug r 3	nsLTP	0.50
Olive	⊙	Ole e 7	nsLTP	0.49
Wheat	⊙	Tri a 14	nsLTP	0.30
Celery	⊙	Api g 6	nsLTP	< 0.10
Hemp	⊙	Can s 3	nsLTP	< 0.10
Sunflower seed	⊙	Hel a 3	nsLTP	< 0.10
Wall pellitory	⊙	Par j 2	nsLTP	< 0.10
Tomato	⊙	Sola l 6	nsLTP	< 0.10

Storage Proteins

Storage proteins show a limited degree of cross-reactivity.

Storage proteins are major allergens in legumes (e.g. peanut or soy), tree nuts (e.g. wal- or hazelnut) and other seeds (e.g. buckwheat, sesame, mustard).

Storage proteins are the major cause of severe allergic reactions, including anaphylaxis. Storage proteins are stable to processing.

Name	E/M	Allergen	Allergen family	kU _A /L
Peanut	⊙	Ara h 2	2S Albumin	> 50.00
	⊙	Ara h 6	2S Albumin	48.67
	⊙	Ara h 1	7/8S Globulin	48.61
	⊙	Ara h 3	11S Globulin	46.37
Walnut	⊙	Jug r 1	2S Albumin	43.57
Pecan	⊙	Car i 1	2S Albumin	43.24
Cashew	⊙	Ana o 3	2S Albumin	43.18
Walnut	⊙	Jug r 4	11S Globulin	29.92
Pecan	⊙	Car i 2 (256-386)	7/8S Globulin	28.07
Pistachio	⊙	Pis v 1	2S Albumin	27.99
Pea	⊙	Pis s 2	7/8S Globulin	17.37
Walnut	⊙	Jug r 2	7/8S Globulin	16.62
	⊙	Jug r 6	7/8S Globulin	15.43
Hazelnut	⊙	Cor a 11	7/8S Globulin	13.37
Soy	⊙	Gly m 5	7/8S Globulin	9.19
Pea	⊙	Pis s 1	7/8S Globulin	7.71
Soy	⊙	Gly m 6	11S Globulin	7.22
Hazelnut	⊙	Cor a 14	2S Albumin	6.23
Pecan	⊙	Car i 4	11S Globulin	5.24
Hazelnut	⊙	Cor a 9	11S Globulin	3.99



Name	E/M	Allergen	Allergen family	kU _A /L
Pistachio	⊙	Pis v 2	11S Globulin	3.46
Cashew	⊙	Ana o 2	11S Globulin	3.41
Lentil	⊙	Len c 1	7/8S Globulin	3.08
Cashew	⊙	Ana o 1	7/8S Globulin	2.93
Pistachio	⊙	Pis v 3	7/8S Globulin	2.31
Coconut	⊙	Coc n 1	7/8S Globulin	1.39
Sesame	⊙	Ses i 1	2S Albumin 2S	1.00
Mustard	⊙	Sin a 1	Albumin	0.41
Macadamia	⊙	Mac i 1.0101 (28-76)	α-Hairpinin	0.38
Peanut	⊙	Ara h 15	Oleosin	< 0.10
Brazil nut	⊙	Ber e 1	2S Albumin	< 0.10
Buckwheat	⊙	Fag e 2	2S Albumin	< 0.10
Soy	⊙	Gly m 8	2S Albumin	< 0.10
Poppy seed	⊙	Pap s 1.0101 (27-846)	α-Hairpinin	< 0.10
Pine nut	⊙	Pin p 1	2S Albumin	< 0.10
Almond	⊙	Pru du 6	11S Globulin	< 0.10

Tropomyosin

Tropomyosins show a very high degree of cross-reactivity. Tropomyosins can induce diverse symptoms including anaphylaxis. Sensitisation to tropomyosins can occur by ingestion (seafood), inhalation (mites, cockroaches) or parasite infection (ascariasis, anisakiasis). Tropomyosins are stable to processing.

Name	E/M	Allergen	Allergen family	kU _A /L
Giant freshwater prawn	⊙	Mac r 1	Tropomyosin	1.18
Anisakis simplex	⊙	Ani s 3	Tropomyosin	0.99
Black tiger shrimp	⊙	Pen m 1	Tropomyosin	0.91
Blomia tropicalis	⊙	Blo t 10	Tropomyosin	0.65
Tyrophagus putrescentiae	⊙	Tyr p 10	Tropomyosin	0.60
American cockroach	⊙	Per a 7	Tropomyosin	0.38
European house dust mite	⊙	Der p 10	Tropomyosin	< 0.10

NPC2

NPC2 allergens show a limited degree of cross-reactivity. Members of the NPC2 family are present in house dust- and storage mites. The cross-reactivity between Der f 2 and Der p 2 is quite extensive. NPC2 allergens from storage mites show only a limited degree of cross-reactivity to their pendants in house dust mites.

Name	E/M	Allergen	Allergen family	kU _A /L
European house dust mite	⊙	Der p 2	NPC2 Family	> 50.00
American house dust mite	⊙	Der f 2	NPC2 Family	> 50.00
Tyrophagus putrescentiae	⊙	Tyr p 2	NPC2 Family	0.29
Glycyphagus domesticus	⊙	Gly d 2	NPC2 Family	0.17
Blomia tropicalis	⊙	Blo t 2	NPC2 Family	< 0.10
Lepidoglyphus destructor	⊙	Lep d 2	NPC2 Family	< 0.10

Ole e 1



Ole e 1 family allergens show a high degree of cross-reactivity within plant family borders. The major olive pollen allergen, Ole e 1, represents the prototype of all Ole e 1 family allergens and is the primary sensitiser in regions with olive pollen exposure. Further Ole e 1 related allergens were identified in other trees from the Oleaceae family (ash, lilac, privet). There are further Ole e 1 family members present in grass- and weed pollen.

Name	E/M	Allergen	Allergen family	kU _A /L
Ash	<input checked="" type="radio"/>	Fra e 1	Ole e 1 Family	47.42
Olive	<input checked="" type="radio"/>	Ole e 1	Ole e 1 Family	43.19
Lamb's quarter	<input checked="" type="radio"/>	Che a 1	Ole e 1 Family	< 0.10
Ribwort	<input checked="" type="radio"/>	Pla l 1	Ole e 1 Family	< 0.10
Russian thistle	<input checked="" type="radio"/>	Sal k 5	Ole e 1 Family	< 0.10

β-Expansin





















β-Expansins show limited cross-reactivity between temperate and subtropical grasses, but high cross-reactivity within these subgroups. Grass pollen β-expansins are a family of major grass pollen allergens and are classified as 'group 1' grass pollen allergens. A positive test result to grass pollen β-expansin confirms genuine sensitisation. Group 1 allergens are present in both temperate grasses (e.g., Timothy, Orchard, Perennial rye, Bluegrass, Sweet vernal) and subtropical grasses (e.g., Bahia, Johnson and Bermuda). Phl p 1 is useful for diagnosis and therapy of grass pollen allergy in temperate regions. Bermuda and Bahia grasses belong to distinct subfamilies of subtropical grasses, with Cyn d 1 serving as a marker for Bermuda grass sensitisation and Pas n extract for Bahia and Johnson grass. Although cross-reactivity between temperate and subtropical group 1 allergens can occur, species-specific epitopes exist and should be considered when choosing therapy.

Name	E/M	Allergen	Allergen family	kU _A /L
Timothy grass	<input checked="" type="radio"/>	Phl p 1	β-Expansin	42.99
Maize pollen	<input checked="" type="radio"/>	Zea m 1	β-Expansin	25.10
Bermuda grass	<input checked="" type="radio"/>	Cyn d 1	β-Expansin	15.61





ALEX³ – Number of tested allergen sources

 <p>Grass Pollen 6</p> <p>Bahia grass, Bermuda grass, Common reed, Maize pollen, Rye pollen, Timothy grass</p>	 <p>Legumes 5</p> <p>Chickpea, Lentil, Pea, Peanut, Soy</p>	 <p>Milk 5</p> <p>Camel's milk, Cow's milk, Goat's milk, Mare's milk, Sheep's milk</p>
 <p>Tree Pollen 14</p> <p>Acacia, Alder, Arizona cypress, Ash, Cypress, London plane tree, Mountain cedar, Oak, Olive, Paper mulberry, Silver birch, Sugí, Tree of heaven, Walnut</p>	 <p>Grains 10</p> <p>Barley, Buckwheat, Cultivated rye, Lupine seed, Maize, Millet, Oat, Quinoa, Spelt, Wheat</p>	 <p>Egg 2</p> <p>Egg white, Egg yolk</p>
 <p>Weed Pollen 8</p> <p>Hemp, Lamb's quarter, Mugwort, Pigweed, Ragweed, Ribwort, Russian thistle, Wall pellitory</p>	 <p>Spices 1</p> <p>Mustard</p>	 <p>Fish & Seafood 19</p> <p>Anisakis simplex, Atlantic cod, Atlantic mackerel, Black tiger shrimp, Brown shrimp, Carp, Crab, Giant freshwater prawn, Herring, Lobster, Northern prawn, Salmon, Shrimp, Squid, Swordfish, Thornback ray, Tuna, Venus clam, Whiteleg shrimp</p>
 <p>House Dust Mites & Storage Mites 7</p> <p>Acarus siro, American house dust mite, Blomia tropicalis, European house dust mite, Glycyphagus domesticus, Lepidoglyphus destructor, Tyrophagus putrescentiae</p>	 <p>Fruits 14</p> <p>Apple, Avocado, Banana, Cherry, Coconut, Fig, Grape, Kiwi, Mango, Muskmelon, Papaya, Peach, Pear, Strawberry</p>	 <p>Meat 10</p> <p>Beef, Chicken, Horse, House cricket, Lamb, Mealworm, Migratory locust, Pork, Rabbit, Turkey</p>
 <p>Vegetables 5</p> <p>Celery, Garlic, Onion, Potato, Tomato</p>	 <p>Cockroach 2</p> <p>American cockroach, German cockroach</p>	 <p>Pets 9</p> <p>Cat, Djungarian hamster, Dog, Dog urine (incl. Can f 5), Golden hamster, Guinea pig, Mouse, Rabbit, Rat</p>
 <p>Nuts & Seeds 13</p> <p>Almond, Brazil nut, Cashew, Hazelnut, Macadamia, Pecan, Pine nut, Pistachio, Poppy seed, Pumpkin seed, Sesame, Sunflower seed, Walnut</p>	 <p>Ant, Bee, Wasp, Hornet 5</p> <p>Bald-faced Hornet, Common wasp, Fire ant, Honey bee, Paper wasp</p>	 <p>Farm Animals 4</p> <p>Cattle, Goat, Horse, Pig</p>
	 <p>Fungal Spores & Yeast 5</p> <p>Alternaria alternata, Aspergillus fumigatus, Cladosporium herbarum, Malassezia sympodialis, Penicilium chrysogenum</p>	 <p>Others 5</p> <p>Hom s Lactoferrin, Latex, Pigeon tick, Red meat, Weeping fig</p>

John Doe