

PATIENT CODE

30U4602231

PATIENT NAME

10- ALEX3 v ALEX2

SAMPLE CODE

30U4602231

QR-CODE

03AAQ27D

ALLERGENS

300

TEST METHOD

ALEX³

DOCTOR INFORMATION



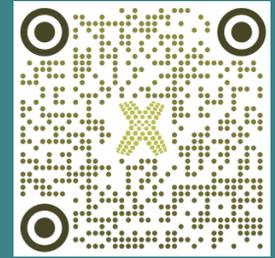
ANALYSIS DATE

27/10/2025

PRINT DATE

05/01/2026

ADDITIONAL INFORMATION



YOUR TEST RESULTS ARE THE KEY!

Improve your quality of life with lifestyle ideas and/or nutrition tips that are tailored to your personal test results!

Total IgE result: 341 kU/L

Reference range total IgE Adults < 100 kU/L

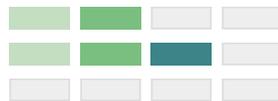
LAB REPORT

Summary of detectable sensitisations



POLLEN

- Grass Pollen
- Tree Pollen
- Weed Pollen



MITES

- House Dust Mites & Storage Mites



DANDER & EPITHELIA

- Farm Animals
- Pets



MICROORGANISMS

- Fungal Spores & Yeast



INSECTS

- Cockroach



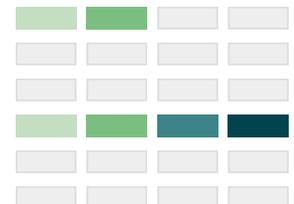
VENOMS

- Ant, Bee, Wasp, Hornet



PLANT-BASED FOOD

- Fruits
- Grains
- Legumes
- Nuts & Seeds
- Spices
- Vegetables



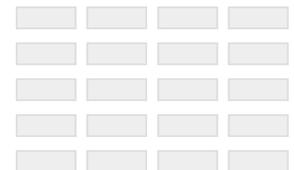
ANIMAL-BASED FOOD

- Egg
- Fish & Seafood
- Meat
- Milk



OTHERS

- CCD
- Ficus
- Latex
- Parasite
- Red meat



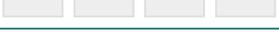
Measured IgE concentration ranges per allergen group



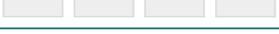
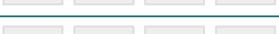
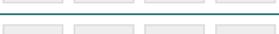
Summary of all results - be aware that components are not added to the respective extracts (i.e. extracts are not spiked)!

Pollen

Grass Pollen

Name	E/M	Allergen	Allergen family	kU _A /L
Bermuda grass	⊙	Cyn d 1	β-Expansin	 1.80
Bahia grass	⋮	Pas n		 Negative
Timothy grass	⊙	Phl p 1	β-Expansin	 3.50
	⊙	Phl p 2	Expansin	 3.96
	⊙	Phl p 5.0101	Grass Group 5/6	 4.12
	⊙	Phl p 6	Grass Group 5/6	 0.70
	⊙	Phl p 7	Polcalcin	 Negative
	⊙	Phl p 12	Profilin	 Negative
Common reed	⋮	Phr c		 Negative
Rye pollen	⋮	Sec c_pollen		 1.33
Maize pollen	⊙	Zea m 1	β-Expansin	 1.39

Tree Pollen

Name	E/M	Allergen	Allergen family	kU _A /L
Acacia	⋮	Aca m		 Negative
Tree of heaven	⋮	Ail a		 Negative
Alder	⊙	Aln g 1	PR-10	 9.06
	⊙	Aln g 4	Polcalcin	 Negative
Silver birch	⊙	Bet v 1	PR-10	 11.00
	⊙	Bet v 6	Isoflavon Reductase	 Negative
	⊙	Bet v 7	Cyclophilin	 Negative
Paper mulberry	⋮	Bro pa		 Negative
Sugi	⊙	Cry j 1	Pectate Lyase	 Negative
Arizona cypress	⊙	Cup a 1	Pectate Lyase	 0.22
Cypress	⋮	Cup s		 Negative
Ash	⊙	Fra e 1	Ole e 1 Family	 Negative
Walnut	⋮	Jug r_pollen		 Negative
Mountain cedar	⋮	Jun a		 Negative
Olive	⊙	Ole e 1	Ole e 1 Family	 Negative
	⊙	Ole e 7	nsLTP	 Negative
	⊙	Ole e 9	β-1,3-Glucanase	 Negative
London plane tree	⊙	Pla a 1	Plant Invertase	 Negative
	⊙	Pla a 2	Polygalacturonase	 Negative
	⊙	Pla a 3	nsLTP	 Negative
Oak	⊙	Que a 1	PR-10	 12.66

Weed Pollen

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

Mites

House Dust Mites & Storage Mites

Name	E/M	Allergen	Allergen family	kU _A /L	
Acarus siro	☰	Aca s		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
Blomia tropicalis	⊙	Blo t 2	NPC2 Family	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Blo t 5	Mite Group 5/21	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3.88
	⊙	Blo t 10	Tropomyosin	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Blo t 21	Mite Group 5/21	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
American house dust mite	⊙	Der f 1	Cysteine Protease	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0.60
	⊙	Der f 2	NPC2 Family	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der f 15	Chitinase	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der f 18	Chitinase-like Protein	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1.29
European house dust mite	⊙	Der p 1	Cysteine Protease	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	8.13
	⊙	Der p 2	NPC2 Family	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der p 5	Mite Group 5/21	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der p 7	Mite Group 7	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der p 10	Tropomyosin	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der p 20	Arginine Kinase	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative
	⊙	Der p 21	Mite Group 5/21	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	8.56
	⊙	Der p 23	Peritrophin-like Protein Domain	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6.88
Glycyphagus domesticus	⊙	Gly d 2	NPC2 Family	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Negative

Name	E/M	Allergen	Allergen family	kU _A /L
Lepidoglyphus destructor	⊙	Lep d 2	NPC2 Family	Negative
Tyrophagus putrescentiae	⋮	Tyr p		0.15
	⊙	Tyr p 2	NPC2 Family	Negative
	⊙	Tyr p 10	Tropomyosin	Negative

Dander & Epithelia

Farm Animals

Name	E/M	Allergen	Allergen family	kU _A /L
Cattle	⊙	Bos d 2	Lipocalin	Negative
Goat	⋮	Cap h_epithelia		Negative
Horse	⊙	Equ c 1	Lipocalin	Negative
	⊙	Equ c 3	Serum Albumin	Negative
	⊙	Equ c 4	Latherin	Negative
Pig	⋮	Sus d_epithelia		Negative

Pets

Name	E/M	Allergen	Allergen family	kU _A /L
Dog	⊙	Can f Fel d 1 like	Uteroglobin	3.42
Dog urine (incl. Can f 5)	⋮	Can f_male urine		Negative
Dog	⊙	Can f 1	Lipocalin	0.49
	⊙	Can f 2	Lipocalin	Negative
	⊙	Can f 3	Serum Albumin	Negative
	⊙	Can f 4	Lipocalin	8.99
	⊙	Can f 6	Lipocalin	Negative
Guinea pig	⊙	Cav p 1	Lipocalin	Negative
Cat	⊙	Fel d 1	Uteroglobin	23.93
	⊙	Fel d 2	Serum Albumin	Negative
	⊙	Fel d 4	Lipocalin	7.32
	⊙	Fel d 7	Lipocalin	9.21
Golden hamster	⊙	Mes a 1	Lipocalin	Negative
Mouse	⊙	Mus m 1	Lipocalin	Negative
Rabbit	⊙	Ory c 1	Lipocalin	Negative
	⊙	Ory c 2	Lipocalin	Negative
	⊙	Ory c 3	Uteroglobin	Negative
Djungarian hamster	⊙	Phod s 1	Lipocalin	Negative
Rat	⊙	Rat n 1	Lipocalin	Negative

Microorganisms

Fungal Spores & Yeast

Name	E/M	Allergen	Allergen family	kU _A /L
Alternaria alternata	<input checked="" type="radio"/>	Alt a 1	Alt a 1 Family	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Alt a 6	Enolase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Aspergillus fumigatus	<input checked="" type="radio"/>	Asp f 1	Mitogillin Family	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Asp f 3	Peroxisomal Protein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Asp f 4	Unknown	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Asp f 6	Mn Superoxide Dismutase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Cladosporium herbarum	<input checked="" type="radio"/>	Asp f 8	Ribosomal Protein P2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Cl a h		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Cladosporium herbarum	<input checked="" type="radio"/>	Cl a h 8	Mannitol Dehydrogenase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Mala s 5	Unknown	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Malassezia sympodialis	<input checked="" type="radio"/>	Mala s 6	Cyclophilin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.11
	<input checked="" type="radio"/>	Mala s 11	Mn Superoxide Dismutase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Mala s 13	Thioredoxin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Penicillium chrysogenum	<input checked="" type="radio"/>	Pen ch		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Insects

Cockroach

Name	E/M	Allergen	Allergen family	kU _A /L
German cockroach	<input checked="" type="radio"/>	Bla g 1	Nitrile Specifier	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Bla g 2	Aspartic Protease	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Bla g 4	Lipocalin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Bla g 5	Glutathione S-Transferase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Bla g 9	Arginine Kinase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
American cockroach	<input checked="" type="radio"/>	Per a		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Per a 6	Troponin C	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Per a 7	Tropomyosin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Venoms

Ant, Bee, Wasp, Hornet

Name	E/M	Allergen	Allergen family	kU _A /L
Honey bee	<input checked="" type="radio"/>	Api m		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Api m 1	Phospholipase A2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Api m 2	Hyaluronidase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.11
	<input checked="" type="radio"/>	Api m 10	Icarapin Variant 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Bald-faced Hornet	<input checked="" type="radio"/>	Dol m 2	Hyaluronidase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Dol m 5	Antigen 5	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Paper wasp	<input checked="" type="radio"/>	Pol d		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pol d 5	Antigen 5	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Fire ant	<input checked="" type="radio"/>	Sol spp		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Common wasp	<input checked="" type="radio"/>	Ves v 1	Phospholipase A1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Name	E/M	Allergen	Allergen family	kU _A /L
	<input checked="" type="radio"/>	Ves v 5	Antigen 5	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Plant-Based Food

Fruits

Name	E/M	Allergen	Allergen family	kU _A /L
Kiwi	<input checked="" type="radio"/>	Act d 1	Cysteine Protease	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Act d 2	Thaumatococcus-like Protein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.17
	<input checked="" type="radio"/>	Act d 5	Kiwellin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Act d 10	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Papaya	<input type="checkbox"/>	Car p		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Coconut	<input checked="" type="radio"/>	Coc n 1	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Muskmelon	<input checked="" type="radio"/>	Cuc m 2	Profilin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Fig	<input type="checkbox"/>	Fic c		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Strawberry	<input checked="" type="radio"/>	Fra a 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Apple	<input checked="" type="radio"/>	Mal d 1	PR-10	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 1.25
	<input checked="" type="radio"/>	Mal d 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Mango	<input checked="" type="radio"/>	Man i 1	Class 4 Chitinase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Banana	<input checked="" type="radio"/>	Mus a 2	Class 1 Chitinase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Mus a 5	β-1,3-Glucanase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Avocado	<input type="checkbox"/>	Pers a		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pers a 1	Class 1 Chitinase	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Cherry	<input checked="" type="radio"/>	Pru av 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Peach	<input checked="" type="radio"/>	Pru p 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pru p 7	Gibberellin-regulated Protein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Pear	<input type="checkbox"/>	Pyr c		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.15
Grape	<input checked="" type="radio"/>	Vit v 1	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Grains

Name	E/M	Allergen	Allergen family	kU _A /L
Oat	<input type="checkbox"/>	Ave s		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Quinoa	<input type="checkbox"/>	Che q		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Buckwheat	<input type="checkbox"/>	Fag e		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Fag e 2	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Barley	<input type="checkbox"/>	Hor v		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Lupine seed	<input type="checkbox"/>	Lup a		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Millet	<input type="checkbox"/>	Pan m		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Cultivated rye	<input type="checkbox"/>	Sec c_flour		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Wheat	<input checked="" type="radio"/>	Tri a aA_TI	α-Amylase Trypsin-Inhibitor	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Tri a 14	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Tri a 19	Ω-5-Gliadin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Name	E/M	Allergen	Allergen family	kU _A /L
	<input checked="" type="radio"/>	Tri a 36	Low Molecular Weight Glutenin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Tri a 37	α-Purothionin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Spelt	<input type="checkbox"/>	Tri s		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Maize	<input type="checkbox"/>	Zea m		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Zea m 14	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Legumes

Name	E/M	Allergen	Allergen family	kU _A /L
Peanut	<input checked="" type="radio"/>	Ara h 1	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 2	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 3	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 6	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 8	PR-10	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 9	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 15	Oleosin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ara h 18	Cyclophilin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Chickpea	<input type="checkbox"/>	Cic a		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Soy	<input checked="" type="radio"/>	Gly m 4	PR-10	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Gly m 5	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Gly m 6	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Gly m 8	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.11
Lentil	<input checked="" type="radio"/>	Len c 1	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Len c 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Pine nut	<input type="checkbox"/>	Pin p		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pin p 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Pea	<input checked="" type="radio"/>	Pis s 1	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pis s 2	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pis s 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Nuts & Seeds

Name	E/M	Allergen	Allergen family	kU _A /L
Cashew	<input checked="" type="radio"/>	Ana o 1	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ana o 2	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ana o 3	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Brazil nut	<input type="checkbox"/>	Ber e		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ber e 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Pecan	<input type="checkbox"/>	Car i		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Car i 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Car i 2 (256-386)	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Car i 4	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Hazelnut	<input checked="" type="radio"/>	Cor a 1.0401	PR-10	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 31.33
	<input checked="" type="radio"/>	Cor a 8	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Name	E/M	Allergen	Allergen family	kU _A /L
	<input checked="" type="radio"/>	Cor a 9	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Cor a 11	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Cor a 14	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Pumpkin seed	<input type="checkbox"/>	Cuc p		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Sunflower seed	<input type="checkbox"/>	Hel a		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Hel a 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Walnut	<input checked="" type="radio"/>	Jug r 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Jug r 2	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Jug r 3	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Jug r 4	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Jug r 6	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Macadamia	<input type="checkbox"/>	Mac i		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Mac i 1.0101 (28-76)	α-Hairpinin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Poppy seed	<input type="checkbox"/>	Pap s		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pap s 1.0101 (27-846)	α-Hairpinin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Pistachio	<input checked="" type="radio"/>	Pis v 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pis v 2	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pis v 3	7/8S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Almond	<input type="checkbox"/>	Pru du		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Pru du 6	11S Globulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Sesame	<input type="checkbox"/>	Ses i		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Ses i 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Spices

Name	E/M	Allergen	Allergen family	kU _A /L
Mustard	<input type="checkbox"/>	Sin a		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Sin a 1	2S Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Vegetables

Name	E/M	Allergen	Allergen family	kU _A /L
Onion	<input type="checkbox"/>	All c		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Garlic	<input type="checkbox"/>	All s		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Celery	<input checked="" type="radio"/>	Api g 1	PR-10	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Api g 2	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Api g 6	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Api g 7	Plant Defensin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Potato	<input type="checkbox"/>	Sol t		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Tomato	<input type="checkbox"/>	Sola l		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	<input checked="" type="radio"/>	Sola l 6	nsLTP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Animal-Based Food

Egg

Name	E/M	Allergen	Allergen family	kU _A /L
Egg white	☰	Gal d_white		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Egg yolk	☰	Gal d_yolk		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Egg white	⊙	Gal d 1	Ovomucoid	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
	⊙	Gal d 2	Ovalbumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.10
	⊙	Gal d 3	Ovotransferrin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 0.16
	⊙	Gal d 4	Lysozyme C	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative
Egg yolk	⊙	Gal d 5	Serum Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Negative

Fish & Seafood

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

Name	E/M	Allergen	Allergen family	kU _A /L	
Tuna	<input checked="" type="radio"/>	Thu a 1	β-Parvalbumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Swordfish	<input checked="" type="radio"/>	Xip g 1	β-Parvalbumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative

Meat

Name	E/M	Allergen	Allergen family	kU _A /L	
House cricket	<input type="radio"/>	Ach d		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Beef	<input type="radio"/>	Bos d_meat		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 6	Serum Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Horse	<input type="radio"/>	Equ c_meat		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Chicken	<input type="radio"/>	Gal d_meat		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Gal d 7	Myosin Light Chain	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Migratory locust	<input type="radio"/>	Loc m		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Turkey	<input type="radio"/>	Mel g		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Rabbit	<input type="radio"/>	Ory c_meat		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Lamb	<input type="radio"/>	Ovi a_meat		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Pork	<input checked="" type="radio"/>	Sus d 1	Serum Albumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Mealworm	<input type="radio"/>	Ten m		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative

Milk

Name	E/M	Allergen	Allergen family	kU _A /L	
Cow's milk	<input type="radio"/>	Bos d_milk		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 4	α-Lactalbumin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 5	β-Lactoglobulin	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 8	Casein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 9	α-S1 Casein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 10	α-S2 Casein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 11	β-Casein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
	<input checked="" type="radio"/>	Bos d 12	κ-Casein	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Camel's milk	<input type="radio"/>	Cam d		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Goat's milk	<input type="radio"/>	Cap h_milk		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Mare's milk	<input type="radio"/>	Equ c_milk		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative
Sheep's milk	<input type="radio"/>	Ovi a_milk		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative

Others

CCD

Name	E/M	Allergen	Allergen family	kU _A /L	
Hom s Lactoferrin	<input checked="" type="radio"/>	Hom s LF	CCD	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Negative

Ficus

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

Latex

Name	E/M	Allergen	Allergen family	kU _A /L
Latex	⊙	Hev b 1	Rubber Elongation Factor	Negative
	⊙	Hev b 3	Small Rubber Particle Protein	Negative
	⊙	Hev b 5	Unknown	0.10
	⊙	Hev b 6.02	Pro-Hevein	Negative
	⊙	Hev b 11	Class 1 Chitinase	Negative

Parasite

Name	E/M	Allergen	Allergen family	kU _A /L
Pigeon tick	⊙	Arg r 1	Lipocalin	Negative

Red meat

Name	E/M	Allergen	Allergen family	kU _A /L
Red meat	⊙	Alpha-GAL	α-Gal	Negative

Information to cross-reactive allergens

PR-10

Name	E/M	Allergen	Allergen family	kU _A /L
Alder	⊙	Aln g 1	PR-10	9.06
Silver birch	⊙	Bet v 1	PR-10	11.00
Hazelnut	⊙	Cor a 1.0401	PR-10	31.33
Apple	⊙	Mal d 1	PR-10	1.25
Oak	⊙	Que a 1	PR-10	12.66

Lipocalin

Name	E/M	Allergen	Allergen family	kU _A /L
Dog	⊙	Can f 1	Lipocalin	0.49
	⊙	Can f 4	Lipocalin	8.99
Cat	⊙	Fel d 4	Lipocalin	7.32
	⊙	Fel d 7	Lipocalin	9.21

Uteroglobin

Name	E/M	Allergen	Allergen family	kU _A /L
Dog	⊙	Can f Fel d 1 like	Uteroglobin	3.42
Cat	⊙	Fel d 1	Uteroglobin	23.93

PATIENT CODE
30U4602231

PATIENT NAME
10-ALEX3 v ALEX2

QR-CODE
03AAQ27D

TEST METHOD
ALEX³

β-Expansin

Name	E/M	Allergen	Allergen family	kU _A /L	
Bermuda grass	<input checked="" type="radio"/>	Cyn d 1	β-Expansin	<div><div style="width: 100%;"></div></div>	1.80
Timothy grass	<input checked="" type="radio"/>	Phl p 1	β-Expansin	<div><div style="width: 100%;"></div></div>	3.50
Maize pollen	<input checked="" type="radio"/>	Zea m 1	β-Expansin	<div><div style="width: 100%;"></div></div>	1.39

Raven Interpretation Summary

SAMPLE INFORMATION

The sample was tested on QR code 03AAQ27D, interpretation date 01/12/2025.

Of the tested 299 allergens, 24 were/was above the cut off of 0.3 kU_A/L. A sensitisation can be an indicator of an IgE dependent allergy. For all positive ALEX allergens, comments for interpretation guidance are listed below.

TOTAL IGE: 341 KU/L

The measured total IgE was 341 kU/L. With a total IgE titre above 100 kU/L, allergy is likely.

CROSS-REACTIVE ALLERGEN SENSITISATION DETECTED

Sensitisations against molecular allergens which are markers of (broad) cross-reactivity between different allergen sources were detected.

Detected cross-reactive allergen sensitisations:

- PR-10s: Aln g 1, Bet v 1, Cor a 1.0401, Mal d 1
- Cysteine Proteases: Der f 1, Der p 1
- Lipocalins: Can f 1, Can f 4, Fel d 4, Fel d 7

PR-10 Proteins

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 birch related tree pollen explains possible IgE cross-reactivity between pollen from hazel, alder, beech, oak and hornbeam. PR-10 nutritive: PR-10 allergens in fresh fruits, nuts, vegetables and legumes can induce oral allergy syndrome and sometimes even severe allergic reactions in sensitised individuals. PR-10 allergens are not stable to heat and digestion.

Cysteine Proteases

Members of the CP allergen family can cause inhalative symptoms, as well as mild to severe forms of food allergy. CP allergens can be found in several fruits, mites and in ragweed pollen. Inhalative symptoms manifest as allergic rhinoconjunctivitis and/or allergic asthma. CP food allergens can cause severe reactions. Fruit CP allergens are resistant to heat and digestion.

Lipocalins

Nearly all members of the Lipocalin allergen family can cause inhalative symptoms like allergic rhinoconjunctivitis and allergic asthma. Lipocalin from pigeon tick is associated with idiopathic nocturnal anaphylaxis. The degree of cross-reactivity varies wildly between members of this family. Some members of the Lipocalin family serve as markers for AIT indication.

TREE POLLEN

Birch Family

Sensitisation to pollen from the birch family was detected. Allergic symptoms associated with this allergen source range from allergic rhinoconjunctivitis to allergic asthma.

Aln g 1 is a member of the PR-10 allergen family and is associated with inhalative symptoms and mostly mild forms of food allergy (e.g. oral allergy syndrome). The degree of cross-reactivity between Aln g 1 and pollen- as well as food-allergens from the PR-10 allergen family is high. The importance of these cross-reactions has to be analysed on a clinical level. Aln g 1 serves as a marker for AIT indication, if corresponding clinical symptoms are present.

Bet v 1 is the major allergen in birch pollen and a member of the PR-10 allergen family. It is associated with inhalative symptoms and mostly mild forms of food allergy (e.g. oral allergy syndrome). The degree of cross-reactivity between Bet v 1 and pollen- as well as food-allergens from the PR-10 allergen family is high. The importance of these cross-reactions has to be analysed on a clinical level. Bet v 1 serves as a marker for AIT indication, if corresponding clinical symptoms are present.

Que a 1 is a member of the PR-10 allergen family and is associated with inhalative symptoms and mostly mild forms of food allergy (e.g. oral allergy syndrome). The degree of cross-reactivity between Que a 1 and pollen- as well as food-allergens from the PR-10 allergen family is high. The importance of

these cross-reactions has to be analysed on a clinical level. Que a 1 serves as a marker for AIT indication, if corresponding clinical symptoms are present.

Causal treatment is possible via AIT, symptomatic treatment includes anti-histamines and local corticosteroids in various formulations (tablet, spray).

GRASS POLLEN

Sensitisation to grass pollen was detected. Allergic symptoms associated with grass pollen range from allergic rhinoconjunctivitis to allergic asthma.

Cyn d 1, Lol p 1, Phl p 1 and Zea m 1 are members of the β-Expansin allergen family. The degree of cross-reactivity between members of this allergen family is very high. β-Expansins serve as markers for AIT indication, if corresponding clinical symptoms are present. Positive results were obtained for: Cyn d 1, Phl p 1, Zea m 1.

Phl p 2 is a member of the Expansin allergen family. The degree of cross-reactivity between members of this allergen family is very high. Along with Phl p 1 and 5, Phl p 2 serves as a marker of true grass-pollen sensitisation. Patients with isolated Sensitisation to Phl p 2 are not suitable candidates for AIT.

Phl p 5 is a member of the Grass Group 5/6 allergen family. The degree of cross-reactivity between members of this allergen family is high, although a Grass Group 5/6 allergen has not been described in all grass pollen species. Along with Phl p 1 and Phl p 2, Phl p 5 serves as marker of true grass-pollen sensitisation. Phl p 1 and 5 serve as markers for AIT indication, if corresponding clinical symptoms are present.

Phl p 6 is a member of the Grass Group 5/6 allergen family. The degree of cross-reactivity between members of this allergen family is high.

Causal treatment is possible via AIT - Phl p 1 and 5 serve as markers for AIT indication, if corresponding are present. Symptomatic treatment includes anti-histamines and local corticosteroids in various formulations (tablet, spray).

FURRY ANIMALS

Cat

Sensitisation to cat was detected. Allergic symptoms associated with this allergen source range from allergic rhinoconjunctivitis to allergic asthma.

Fel d 1 is a member of the Uteroglobin (UG) allergen family and a marker for genuine cat allergy. Fel d 1 also serves as a marker for AIT indication, if corresponding clinical symptoms are present. The degree of cross-reactivity between Fel d 1 and other members of the UG allergen family is low to moderate (e.g. Can f Fel d 1 like from dog).

Fel d 4 is a member of the Lipocalin allergen family (LC). A moderate degree of crossreactivity to LC from dog (Can f 4) and horse (Equ c 1) have been described.

Fel d 7 is a member of of the Lipocalin allergen family (LC). A moderate degree of crossreactivity to LC from dog (Can f 1) has been described.

If avoidance of cats is not possible, an AIT can be prescribed. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray). Avoidance of exposition to cats is strongly recommended.

Dog

Sensitisation to dog was detected. Allergic symptoms associated with this allergen source range from allergic rhinoconjunctivitis to allergic asthma.

Can f 1 is a member of the Lipocalin allergen family (LC). There is a moderate risk of cross-reactivity with Fel d 7, a LC from cat. Can f 1 serves as a specific marker for dog sensitisation and as a marker for AIT, if corresponding clinical symptoms are present. The highest concentrations are found in fur and saliva.

Can f 4 is a member of the Lipocalin allergen family (LC). The degree of cross-reactivity to other members of the LC family is very low. A low degree of cross-reactivity has been reported with a related allergen from cattle. Can f 4 is the most abundant allergen in dog fur.

Can f Fel d 1 like is a member of the Uteroglobin like allergen family. The degree of cross-reactivity to Fel d 1 from cat is moderate.

If avoidance of dogs is not possible an AIT can be prescribed. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray). Avoidance is strongly recommended.

MITES AND COCKROACHES

House dust mites

Sensitisation to house dust mite was detected. Allergic symptoms associated with this allergen source range from allergic rhinoconjunctivitis to asthma.

Der p 1 & Der f 1 are members of the Cystein Protease allergen family (CP). The degree of cross-reactivity between different members of the CP family in different house dust mites is high. Both Der p 1 and Der f 1 serve as markers for AIT indication, if corresponding symptoms are present. Positive results were obtained for: Der f 1, Der p 1.

Der f 18 is a member of the Chitinase Class III allergen family. The degree of cross-reactivity to other members of this family is high to its pendant in *D. pteronyssinus*, medium to its pendant in *B. tropicalis* and *E. maynei* and low with other mites.

Der p 21 is a member of the Mite Group 5/21 allergen family (MG 5/21). The degree of cross-reactivity to other members of the MG 5/21 allergen family is moderate to high between Der p 21 and Blo t 21.

Der p 23 is a member of the Peritrophin-like Protein allergen family (PLP), which is associated with the development of Asthma. The degree of cross-reactivity to other members of the PLP allergen family is not clear.

Allergen avoidance is advised. Encasings for blankets, mattresses and pillows can reduce the allergen load. Der f 1/Der p 1 and Der f 2/Der p 2 are major allergens from house dust mite and serve as markers for AIT indication, if corresponding clinical symptoms are present. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray).

Storage Mites

Sensitisation to storage mites was detected. Allergic symptoms associated with this allergen source range from allergic rhinoconjunctivitis to allergic asthma.

Blo t 5 is a member of the Mite Group 5/21 allergen family (MG 5/21) and a marker for genuine *Blomia tropicalis* sensitisation. The degree of cross-reactivity to other members of the MG 5/21 allergen family is limited (e.g. to Der p 5). Blo t 5 may serve as a marker for AIT indication, if corresponding clinical symptoms are present.

Allergen avoidance is advised. Encasings for blankets, mattresses and pillows can reduce the allergen load. Blo t 5 and 21, Gly d 2, Lep d 2 and Tyr p 2 may serve as markers for AIT indication, if corresponding clinical symptoms are present. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray).

FRUITS

Apple

Sensitisation to apple was detected. Allergic symptoms associated with apple range from oral allergy syndrome to severe anaphylactic reactions.

Mal d 1 is a member of the PR-10 allergen family and is associated with mild forms of apple allergy (e.g. oral allergy syndrome). The degree of cross-reactivity between Mal d 1 and other members of the PR-10 allergen family is high. The importance of these cross-reactions has to be analysed on a clinical level. In most cases a Mal d 1 sensitisation is caused by a primary sensitisation against Bet v 1 from birch pollen. Mal d 1 is not stable towards heat and digestion.

As Mal d 1 is heat sensitive, baked or cooked apple can be consumed without danger for clinical reactions. In case of genuine apple allergy due to sensitisations to Mal d 2 and/or 3, avoidance is the therapeutic option of choice. Mal d 3 is primarily located in fruit skin, peeled apple is tolerated by most patients with Mal d 3 sensitisation. Include extensive patient training on avoidance measures and the prescription of an emergency kit (including adrenalin autoinjector for severe cases).

NUTS AND LEGUMES

Hazelnut

Sensitisation to hazelnut was detected. Allergic symptoms associated with hazelnut allergens range from oral allergy syndrome to severe anaphylactic reactions.

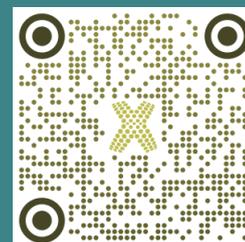
Cor a 1.0401 is a member of the PR-10 allergen family and is associated with mild forms of hazelnut allergy e.g. oral allergy syndrome. In rare cases, mild systemic reactions occur. Severe anaphylactic reactions are very rare. The degree of cross-reactivity between Cor a 1.0401 and other members of the PR-10 allergen family is high. The importance of these cross-reactions has to be analysed on a clinical level. In most cases a Cor a 1.0401 sensitisation is caused by a primary sensitisation against Bet v 1 from birch pollen. Cor a 1.0401 is not stable towards heat and digestion.

Include extensive patient training on avoidance measures and the prescription of an emergency kit (including adrenalin autoinjector for severe cases).

DISCLAIMER: THE PRESENCE OF IgE-ANTIBODIES IMPLIES A RISK OF ALLERGIC REACTIONS AND HAS TO BE ANALYZED IN CONJUNCTION WITH THE CLINICAL HISTORY AND OTHER DIAGNOSTIC TEST RESULTS. THE RAVEN INTERPRETATION GUIDANCE SOFTWARE IS A TOOL TO SUPPORT PHYSICIANS IN THE INTERPRETATION OF ALEX RESULTS. RAVEN COMMENTS DO NOT REPLACE THE DIAGNOSIS BY A PHYSICIAN. NO LIABILITY IS ACCEPTED FOR RAVEN COMMENTS AND RESULTING THERAPEUTIC INTERVENTIONS. THE STATED COMMENTS ARE DESIGNED EXCLUSIVELY FOR ALEX RESULTS.

YOUR TEST RESULTS ARE THE KEY!

Improve your quality of life with nutrition tips and lifestyle ideas that are customised to your personal test result!



ALEX³ – Number of tested allergen sources

 Grass Pollen 6 Bahia grass, Bermuda grass, Common reed, Maize pollen, Rye pollen, Timothy grass	 Grains 10 Barley, Buckwheat, Cultivated rye, Lupine seed, Maize, Millet, Oat, Quinoa, Spelt, Wheat	 Egg 2 Egg white, Egg yolk
 Tree Pollen 14 Acacia, Alder, Arizona cypress, Ash, Cypress, London plane tree, Mountain cedar, Oak, Olive, Paper mulberry, Silver birch, Sugi, Tree of heaven, Walnut	 Spices 1 Mustard	 Fish & Seafood 19 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
 Weed Pollen 8 Hemp, Lamb's quarter, Mugwort, Pigweed, Ragweed, Ribwort, Russian thistle, Wall pellitory	 Fruits 14 Apple, Avocado, Banana, Cherry, Coconut, Fig, Grape, Kiwi, Mango, Muskmelon, Papaya, Peach, Pear, Strawberry	 Meat 10 Beef, Chicken, Horse, House cricket, Lamb, Mealworm, Migratory locust, Pork, Rabbit, Turkey
 House Dust Mites & Storage Mites 7 Acarus siro, American house dust mite, Blomia tropicalis, European house dust mite, Glycyphagus domesticus, Lepidoglyphus destructor, Tyrophagus putrescentiae	 Cockroach 2 American cockroach, German cockroach	 Pets 9 Cat, Djungarian hamster, Dog, Dog urine (incl. Can f 5), Golden hamster, Guinea pig, Mouse, Rabbit, Rat
 Vegetables 5 Celery, Garlic, Onion, Potato, Tomato	 Ant, Bee, Wasp, Hornet 5 Bald-faced Hornet, Common wasp, Fire ant, Honey bee, Paper wasp	 Farm Animals 4 Cattle, Goat, Horse, Pig
 Nuts & Seeds 12 Almond, Brazil nut, Cashew, Hazelnut, Macadamia, Pecan, Pistachio, Poppy seed, Pumpkin seed, Sesame, Sunflower seed, Walnut	 Fungal Spores & Yeast 5 Alternaria alternata, Aspergillus fumigatus, Cladosporium herbarum, Malassezia sympodialis, Penicillium chrysogenum	 Others 5 Hom s Lactoferrin, Latex, Pigeon tick, Red meat, Weeping fig
 Legumes 6 Chickpea, Lentil, Pea, Peanut, Pine nut, Soy	 Milk 5 Camel's milk, Cow's milk, Goat's milk, Mare's milk, Sheep's milk	