SAMPLE REPORT - NOT A PATIENT RESULT

Access MEDICAL LABS
5151 CORPORATE WAY
JUPITER, FL 33458-3101
(866)720-8386

allergE+
Environmental + Food Allergy, IgE Testing

PATIENT ID

PATIENT NAME
Test, test

DATE OF BIRTH
2/2/2000

SAMPLE ID
3563870

QR-CODE
02APD1CC

TESTED ALLERGENS
295

TEST METHOD
ALEX^2

REFERRING PHYSICIAN
Vandhana Kiswani-Barley, MD

Lab report: Summary on detectable sensitizations

POLLEN

- Grass Pollen
- Tree Pollen
- Weed Pollen

MITES

- House Dust Mites & Storage Mites

PLANT-BASED FOOD

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

INSECTS & VENOMS

- Ant, Bee, Wasp
- Cockroach

MICROORGANISMS

- Fungal Spores & Yeast

ANIMAL-DERIVED FOOD

- Milk
- Egg
- Fish & Seafood
- Meat

EPITHELIAL TISSUES OF ANIMALS

- Pets
- Farm Animals

OTHERS

- Latex
- Ficus
- CCD
- Parasite

Highest measured IgE concentration per allergen group

< 0.3 kUA/L	0.3 - 1 kUA/L	1 - 5 kUA/L	5 - 15 kUA/L	> 15 kUA/L
Negative or uncertain	Low IgE level	Moderate IgE level	High IgE level	Very high IgE level

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Name	E/M	Allergen	Protein Family	kU_A/L

POLLEN

Grass Pollen

Bermuda grass		Cyn d		≤ 0.10
		Cyn d 1	Beta-Expansin	≤ 0.10
Perennial Ryegrass		Lol p 1	Beta-Expansin	0.53
Bahia grass		Pas n		≤ 0.10
Timothy grass		Phl p 1	Beta-Expansin	1.57
		Phl p 2	Expansin	≤ 0.10
		Phl p 5.0101	Grass Group 5/6	6.95
		Phl p 6	Grass Group 5/6	49.46
		Phl p 7	Polcalcin	≤ 0.10
		Phl p 12	Profilin	≤ 0.10
Common reed		Phr c		≤ 0.10
Cultivated rye, Pollen		Sec c_pollen		0.29

Tree Pollen

Acacia		Aca m		≤ 0.10
Tree of Heaven		Ail a		≤ 0.10
Alder		Aln g 1	PR-10	≤ 0.10
		Aln g 4	Polcalcin	≤ 0.10
Silver birch		Bet v 1	PR-10	≤ 0.10
		Bet v 2	Profilin	≤ 0.10
		Bet v 6	Isoflavon Reductase	≤ 0.10
Paper mulberry		Bro pa		≤ 0.10
Hazel pollen		Cor a_pollen		≤ 0.10
		Cor a 1.0103	PR-10	≤ 0.10
Sugi		Cry j 1	Pectate Lyase	2.83
Cypress		Cup a 1	Pectate Lyase	1.30
		Cup s		≤ 0.10
Beech		Fag s 1	PR-10	≤ 0.10
Ash		Fra e		≤ 0.10
		Fra e 1	Ole e 1-Family	≤ 0.10
Walnut pollen		Jug r_pollen		≤ 0.10
Mountain cedar		Jun a		≤ 0.10

Allergen Extract Molecular Allergen IgE < 0.3 negative or uncertain

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Name	E/M	Allergen	Protein Family	kU_A/L
Mulberry		Mor r		≤ 0.10
Olive		Ole e 1	Ole e 1-Family	≤ 0.10
		Ole e 9	1,3 β Glucanase	≤ 0.10
Date palm		Pho d 2	Profilin	≤ 0.10
London plane tree		Pla a 1	Plant Invertase	≤ 0.10
		Pla a 2	Polygalacturonase	≤ 0.10
		Pla a 3	nsLTP	≤ 0.10
Cottonwood		Pop n		≤ 0.10
Elm		Ulm c		≤ 0.10

Weed Pollen

Common Pigweed		Ama r		≤ 0.10
Ragweed		Amb a		≤ 0.10
		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
		Art v 3	nsLTP	≤ 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
Annual mercury		Mer a 1	Profilin	≤ 0.10
Wall pellitory		Par j		≤ 0.10
		Par j 2	nsLTP	≤ 0.10
Ribwort		Pla l		≤ 0.10
		Pla l 1	Ole e 1-Family	≤ 0.10
Russian thistle		Sal k		≤ 0.10
		Sal k 1	Pectin Methylesterase	≤ 0.10
Nettle		Urt d		≤ 0.10

MITES

House Dust Mite

American house dust mite		Der f 1	Cysteine protease	≤ 0.10

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	⊙	Der f 2	NPC2 Family	≤ 0.10
European house dust mite	⊙	Der p 1	Cysteine protease	≤ 0.10
	⊙	Der p 2	NPC2 Family	≤ 0.10
	⊙	Der p 5	unknown	≤ 0.10
	⊙	Der p 7	Mites, Group 7	≤ 0.10
	⊙	Der p 10	Tropomyosin	≤ 0.10
	⊙	Der p 11	Myosin, heavy chain	≤ 0.10
	⊙	Der p 20	Arginine kinase	≤ 0.10
	⊙	Der p 21	unknown	≤ 0.10
	⊙	Der p 23	Peritrophin-like protein domain	≤ 0.10

Storage Mite

Acarus siro	⁘	Aca s		≤ 0.10
Blomia tropicalis	⊙	Blo t 5	Mites, Group 5	≤ 0.10
	⊙	Blo t 10	Tropomyosin	≤ 0.10
	⊙	Blo t 21	unknown	≤ 0.10
Glycyphagus domesticus	⊙	Gly d 2	NPC2 Family	≤ 0.10
Lepidoglyphus destructor	⊙	Lep d 2	NPC2 Family	≤ 0.10
Tyrophagus putrescentiae	⁘	Tyr p		≤ 0.10
	⊙	Tyr p 2	NPC2 Family	≤ 0.10

MICROORGANISMS & SPORES

Yeast

Malassezia sympodialis	⊙	Mala s 5	unknown	≤ 0.10
	⊙	Mala s 6	Cyclophilin	≤ 0.10
	⊙	Mala s 11	Mn Superoxid-Dismutase	≤ 0.10
Yeast	⁘	Sac c		≤ 0.10

Moulds

Alternaria alternata	⊙	Alt a 1	Alt a 1-Family	≤ 0.10
	⊙	Alt a 6	Enolase	2.03
Aspergillus fumigatus	⊙	Asp f 1	Mitogillin Family	≤ 0.10
	⊙	Asp f 3	Peroxysomal Protein	≤ 0.10
	⊙	Asp f 4	unknown	≤ 0.10

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Name	E/M	Allergen	Protein Family	kU_A/L
	◉	Asp f 6	Mn Superoxid-Dismutase	≤ 0.10
Cladosporium herbarum	⁘	Cla h		0.12
	◉	Cla h 8	Short Chain Dehydrogenase	≤ 0.10
Penicilium chrysogenum	⁘	Pen ch		≤ 0.10

PLANT FOOD

Legumes

Peanut	◉	Ara h 1	7/8S Globulin	≤ 0.10
	◉	Ara h 2	2S Albumin	≤ 0.10
	◉	Ara h 3	11S Globulin	≤ 0.10
	◉	Ara h 6	2S Albumin	≤ 0.10
	◉	Ara h 8	PR-10	≤ 0.10
	◉	Ara h 9	nsLTP	≤ 0.10
	◉	Ara h 15	Oleosin	≤ 0.10
Chickpea	⁘	Cic a		≤ 0.10
Soy	◉	Gly m 4	PR-10	≤ 0.10
	◉	Gly m 5	7/8S Globulin	≤ 0.10
	◉	Gly m 6	11S Globulin	≤ 0.10
	◉	Gly m 8	2S Albumin	≤ 0.10
Lentil	⁘	Len c		≤ 0.10
White bean	⁘	Pha v		≤ 0.10
Pea	⁘	Pis s		≤ 0.10

Cereals

Oat	⁘	Ave s		≤ 0.10
Quinoa	⁘	Che q		≤ 0.10
Common buckwheat	⁘	Fag e		≤ 0.10
	◉	Fag e 2	2S Albumin	≤ 0.10
Barley	⁘	Hor v		≤ 0.10
Lupine seed	⁘	Lup a		≤ 0.10
Rice	⁘	Ory s		≤ 0.10
Millet	⁘	Pan m		≤ 0.10
Cultivated rye	⁘	Sec c_flour		≤ 0.10

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Name	E/M	Allergen	Protein Family	kU_A/L
Wheat	◉	Tri a aA_TI	Alpha-Amylase Trypsin-Inhibitor	≤ 0.10
	◉	Tri a 14	nsLTP	≤ 0.10
	◉	Tri a 19	Omega-5-Gliadin	≤ 0.10
Spelt	⁘	Tri s		≤ 0.10
Maize	⁘	Zea m		≤ 0.10
	◉	Zea m 14	nsLTP	≤ 0.10

Spices

Paprika	⁘	Cap a		≤ 0.10
Caraway	⁘	Car c		≤ 0.10
Oregano	⁘	Ori v		≤ 0.10
Parsley	⁘	Pet c		≤ 0.10
Anise	⁘	Pim a		≤ 0.10
Mustard	⁘	Sin		≤ 0.10
	◉	Sin a 1	2S Albumin	≤ 0.10

Fruit

Kiwi	◉	Act d 1	Cysteine protease	≤ 0.10
	◉	Act d 2	TLP	≤ 0.10
	◉	Act d 5	Kiwellin	≤ 0.10
	◉	Act d 10	nsLTP	≤ 0.10
Papaya	⁘	Car p		≤ 0.10
Orange	⁘	Cit s		≤ 0.10
Melon	◉	Cuc m 2	Profilin	≤ 0.10
Fig	⁘	Fic c		≤ 0.10
Strawberry	◉	Fra a 1+3	PR-10+LTP	≤ 0.10
Apple	◉	Mal d 1	PR-10	≤ 0.10
	◉	Mal d 2	TLP	≤ 0.10
	◉	Mal d 3	nsLTP	≤ 0.10
Mango	⁘	Man i		≤ 0.10
Banana	⁘	Mus a		0.22
Avocado	⁘	Pers a		≤ 0.10
Cherry	⁘	Pru av		≤ 0.10
Peach	◉	Pru p 3	nsLTP	≤ 0.10

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Name	E/M	Allergen	Protein Family		kU_A/L
Pear		Pyr c		≤ 0.10	
Blueberry		Vac m		≤ 0.10	
Grapes		Vit v 1	nsLTP	≤ 0.10	

Vegetables

Onion		All c		≤ 0.10	
Garlic		All s		≤ 0.10	
Celery		Api g 1	PR-10	≤ 0.10	
		Api g 2	nsLTP	≤ 0.10	
		Api g 6	nsLTP	≤ 0.10	
Carrot		Dau c		≤ 0.10	
		Dau c 1	PR-10	≤ 0.10	
Potato		Sol t		≤ 0.10	
Tomato		Sola l		≤ 0.10	
		Sola l 6	nsLTP	≤ 0.10	

Nuts

Cashew		Ana o		≤ 0.10	
		Ana o 2	11S Globulin	≤ 0.10	
		Ana o 3	2S Albumin	≤ 0.10	
Brazil nut		Ber e		≤ 0.10	
		Ber e 1	2S Albumin	≤ 0.10	
Pecan		Car i		≤ 0.10	
Hazelnut		Cor a 1.0401	PR-10	≤ 0.10	
		Cor a 8	nsLTP	≤ 0.10	
		Cor a 9	11S Globulin	≤ 0.10	
		Cor a 11	7/8S Globulin	≤ 0.10	
		Cor a 14	2S Albumin	≤ 0.10	
Walnut		Jug r 1	2S Albumin	≤ 0.10	
		Jug r 2	7/8S Globulin	≤ 0.10	
		Jug r 3	nsLTP	≤ 0.10	
		Jug r 4	11S Globulin	≤ 0.10	
		Jug r 6	7/8S Globulin	≤ 0.10	
Macadamia		Mac i 2S Albumin	2S Albumin	≤ 0.10	
		Mac inte		≤ 0.10	

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Name	E/M	Allergen	Protein Family	kU_A/L
Pistachio	◉	Pis v 1	2S Albumin	≤ 0.10
	◉	Pis v 2	11S Globulin subunit	≤ 0.10
	◉	Pis v 3	7/8S Globulin	≤ 0.10
Almond	⁘	Pru du		≤ 0.10

Seed

Pumpkin seed	⁘	Cuc p		≤ 0.10
Sunflower seed	⁘	Hel a		≤ 0.10
Poppy seed	⁘	Pap s		≤ 0.10
	◉	Pap s 2S Albumin	2S Albumin	≤ 0.10
Sesame	⁘	Ses i		≤ 0.10
	◉	Ses i 1	2S Albumin	0.26
Fenugreek seeds	⁘	Tri fo		≤ 0.10

ANIMAL FOOD

Milk

Cow, 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
Camel	⁘	Cam d		≤ 0.10
Goat, milk	⁘	Cap h_milk		≤ 0.10
Mare's milk	⁘	Equ c_milk		≤ 0.10
Sheep, milk	⁘	Ovi a_milk		≤ 0.10

Egg

Egg white	⁘	Gal d_white		≤ 0.10
Egg yolk	⁘	Gal d_yolk		≤ 0.10
Egg white	◉	Gal d 1	Ovomucoid	≤ 0.10
	◉	Gal d 2	Ovalbumin	≤ 0.10
	◉	Gal d 3	Ovotransferrin	≤ 0.10
	◉	Gal d 4	Lysozym C	≤ 0.10
Egg yolk	◉	Gal d 5	Serum Albumin	≤ 0.10

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Name	E/M	Allergen	Protein Family	kU_A/L
Seafood				
Herring worm	◉	Ani s 1	Kunitz Serin Protease Inhibitor	≤ 0.10
	◉	Ani s 3	Tropomyosin	≤ 0.10
Crab	⁘	Chi spp.		≤ 0.10
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
Atlantic cod	⁘	Gad m		≤ 0.10
	◉	Gad m 2+3	β-Enolase & Aldolase	≤ 0.10
	◉	Gad m 1	β-Parvalbumin	≤ 0.10
Lobster	⁘	Hom g		≤ 0.10
Shrimp	⁘	Lit s		≤ 0.10
Squid	⁘	Lol spp.		≤ 0.10
Common mussel	⁘	Myt e		0.12
Oyster	⁘	Ost e		≤ 0.10
Shrimp	⁘	Pan b		≤ 0.10
Scallop	⁘	Pec spp.		≤ 0.10
Black Tiger Shrimp	◉	Pen m 1	Tropomyosin	≤ 0.10
	◉	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
Clam	⁘	Rud spp.		≤ 0.10
Salmon	⁘	Sal s		≤ 0.10
	◉	Sal s 1	β-Parvalbumin	≤ 0.10
Atlantic mackerel	⁘	Sco s		≤ 0.10
	◉	Sco s 1	β-Parvalbumin	≤ 0.10
Tuna	⁘	Thu a		≤ 0.10
	◉	Thu a 1	β-Parvalbumin	≤ 0.10
Swordfish	◉	Xip g 1	β-Parvalbumin	≤ 0.10

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Name	E/M	Allergen	Protein Family	kU_A/L
Meat				
House cricket		Ach d		≤ 0.10
Cattle, meat		Bos d_meat		≤ 0.10
		Bos d 6	Serum Albumin	≤ 0.10
Horse, meat		Equ c_meat		≤ 0.10
Chicken meat		Gal d_meat		≤ 0.10
Migratory locust		Loc m		≤ 0.10
Turkey		Mel g		≤ 0.10
Rabbit, meat		Ory_meat		≤ 0.10
Sheep, meat		Ovi a_meat		≤ 0.10
Pork		Sus d_meat		≤ 0.10
		Sus d 1	Serum Albumin	≤ 0.10
Mealworm		Ten m		≤ 0.10
INSECTS & VENOMS				
Fire ant poison				
Fire ant		Sol spp.		≤ 0.10
Honey Bee Venom				
Honey bee		Api m		≤ 0.10
		Api m 1	Phospholipase A2	≤ 0.10
		Api m 10	Icarapin Variant 2	≤ 0.10
Wasp Venom				
Hornet		Dol spp		≤ 0.10
Paper wasp venom		Pol d		≤ 0.10
		Pol d 5	Antigen 5	≤ 0.10
Wasp venom		Ves v		≤ 0.10
		Ves v 1	Phospholipase A1	≤ 0.10
		Ves v 5	Antigen 5	≤ 0.10
Cockroach				

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German Cockroach	◉	Bla g 1	Cockroach Group 1	≤ 0.10
	◉	Bla g 2	Aspartyl protease	≤ 0.10
	◉	Bla g 4	Lipocalin	≤ 0.10
	◉	Bla g 5	Glutathione S-transferase	≤ 0.10
	◉	Bla g 9	Arginine kinase	≤ 0.10
American Cockroach	⁘	Per a		≤ 0.10
	◉	Per a 7	Tropomyosin	≤ 0.10

ANIMAL ORIGIN

Pet

Dog	◉	Can f_Fd1	Uteroglobin	0.22
Male dog urine (incl. Can f 5)	⁘	Can f_male urine		3.38
Dog	◉	Can f 1	Lipocalin	1.78
	◉	Can f 2	Lipocalin	≤ 0.10
	◉	Can f 3	Serum Albumin	≤ 0.10
	◉	Can f 4	Lipocalin	6.00
	◉	Can f 6	Lipocalin	0.59
Guinea pig	◉	Cav p 1	Lipocalin	2.74
Cat	◉	Fel d 1	Uteroglobin	5.93
	◉	Fel d 2	Serum Albumin	≤ 0.10
	◉	Fel d 4	Lipocalin	≤ 0.10
	◉	Fel d 7	Lipocalin	≤ 0.10
House mouse	◉	Mus m 1	Lipocalin	0.32
Rabbit, epithel	◉	Ory c 1	Lipocalin	≤ 0.10
	◉	Ory c 2	Lipophilin	≤ 0.10
	◉	Ory c 3	Uteroglobin	0.14
Djungarian hamster	◉	Phod s 1	Lipocalin	≤ 0.10
Rat	⁘	Rat n		0.49

Farm Animals

Cattle	◉	Bos d 2	Lipocalin	≤ 0.10
Goat, epithel	⁘	Cap h_epithelia		≤ 0.10
Horse, epithel	◉	Equ c 1	Lipocalin	0.10
	◉	Equ c 3	Serum Albumin	≤ 0.10

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Name	E/M	Allergen	Protein Family		kU$_A$/L
	◉	Equ c 4	Latherin	≤ 0.10	
Sheep, epithel	⁘	Ovi a_epithelia		≤ 0.10	
Pig	⁘	Sus d_epithelia		≤ 0.10	

OTHERS

Latex

Latex	◉	Hev b 1	Rubber elongation factor	≤ 0.10	
	◉	Hev b 3	Small rubber particle protein	≤ 0.10	
	◉	Hev b 5	unknown	≤ 0.10	
	◉	Hev b 6.02	Hevein	≤ 0.10	
	◉	Hev b 8	Profilin	≤ 0.10	
	◉	Hev b 11	Class 1 Chitinase	≤ 0.10	

Ficus

Weeping fig	⁘	Fic b		≤ 0.10	

CCD

Hom s Lactoferrin	◉	Hom s LF	CCD	≤ 0.10	

Parasite

Pigeon tick	◉	Arg r 1	Lipocalin	≤ 0.10	

Total IgE: 74 kU/L

Normal Total-IgE

Adults: < 20 kU/L Allergy unlikely, 20 - 100 kU/L Allergy possible, > 100 kU/L Allergy likely

SAMPLED ON
6/11/2022

ASSAY PERFORMED ON
6/11/2022

APPROVED ON
7/21/2022

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Information to cross-reactive allergens

Lipocalins

Lipocalins show a limited degree of cross-reactivity.

Lipocalins are airborne and easily spread in indoor environments. They are a risk factor for respiratory symptoms and asthma. The impact of individual lipocalin allergens on severity of symptoms is unknown.

Uteroglobin

Uteroglobins show a limited degree of cross-reactivity.

Uteroglobins are generated in salivary glands and in the skin of some furry animals. Higher levels of sIgE against Uteroglobins were observed in children with asthma to cat.

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Number of tested allergen sources: 165

GRASS POLLEN 6
Bahia grass, Bermuda grass, Common reed, Perennial ryegrass, Rye, Timothy grass

TREE POLLEN 19
Acacia, Alder, Arizona Cypress, European Ash, Beech, Cottonwood, Date palm, Elm, Hazel, London Plane Tree, Mediterranean Cypress, Mountain cedar, Mulberry, Olive, Paper mulberry, Silver birch, Sugi, Tree of Heaven, Walnut

WEED POLLEN 10
Annual mercury, Hemp, Lamb's quarter, Mugwort, Nettle, Pigweed, Ragweed, Ribwort, Russian thistle, Wall pellitory

HOUSE DUST MITES & STORAGE MITES 7
Acarus siro, American house dust mite, Blomia tropicalis, European house dust mite, Glycyphagus domesticus, Lepidoglyphus destructor, Tyrophagus putrescentiae

LEGUMES 6
Chickpea, White bean, Lentil, Pea, Peanut, Soy

GRAINS 11
Barley, Buckwheat, Corn, Cultivated rye, Lupine, Millet, Oat, Quinoa, Rice, Spelt, Wheat

SPICES 6
Anise, Caraway, Mustard, Oregano, Paprika, Parsley

FRUITS 15
Avocado, Apple, Banana, Blueberry, Cherry, Fig, Grape, Kiwi, Mango, Muskmelon, Orange, Papaya, Peach, Pear, Strawberry

VEGETABLES 6
Carrot, Celery, Garlic, Onion, Potato, Tomato

NUTS & SEEDS 13
Almond, Brazil nut, Cashew, Hazelnut, Macadamia, Pecan, Pistachio, Walnut, Fenugreek seeds, Poppy seed, Pumpkin seed, Sesame, Sunflower seed

COCKROACH 2
American cockroach, German cockroach

INSECT VENOMS 5
Common wasp venom, Fire ant venom, Honeybee venom, Long-headed wasp venom, Paper wasp venom

FUNGAL SPORES & YEAST 6
Alternaria alternata, Aspergillus fumigatus, Baker's yeast, Cladosporium herbarum, Malassezia sympodialis, Penicilium chrysogenum

MILK 5
Camel's milk, Cow's milk, Goat's milk, Mare's milk, Sheep's milk

EGG 2
Egg white, Egg yolk

FISH & SEAFOOD 20
Anisakis simplex, Atlantic cod, Atlantic herring, Atlantic mackerel, Black-Tiger shrimp, Brown shrimp, Carp, Common mussel, Crab, Lobster, Northern prawn, Oyster, Salmon, Scallop, Shrimp mix, Squid, Swordfish, Thornback ray, Tuna, Venus clam

MEAT 10
Beef, Chicken, Horse, House cricket, Lamb, Mealworm, Migratory locust, Pig, Rabbit, Turkey

PETS 7
Cat, Djungarian hamster, Dog, Guinea pig, Mouse, Rabbit, Rat

FARM ANIMALS 5
Cattle, Goat, Horse, Pig, Sheep

OTHERS 4
Latex, Hom s lactoferrin, Pigeon tick, Weeping fig

Allergen Extract Molecular Allergen IgE < 0.3 negative or uncertain

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RAVEN®
INTERPRETATION GUIDANCE SOFTWARE

Interpretation - Support

Raven Interpretation Summary

Sample Information

The sample was tested on ALEX² Barcode 02APD1CC, interpretation date 7/21/2022.

Of the tested 295 allergens, 15 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 2 allergens, comments for interpretation guidance are listed below.

Total IgE: 74 kU/L

The measured total IgE was 74 kU/L. With a total IgE titre of below 100 kU/L, allergy is possible but unlikely.

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:

- Lipocalins: Can f 1, Can f 4, Can f 6, Cav p 1, Mus m 1

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

Cypress Family

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

Cry j 1 is a member fo the Pectate Lyase allergen family. The degree of cross-reactivity between different cypress species based on Pectate Lyases is high. Cry j 1 serves as a marker for AIT indication, if corresponding clinical symptoms are present.

Cup a 1 is a member fo the Pectate Lyase allergen family. The degree of cross-reactivity between different cypress species based on Pectate Lyases is high. Cup 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 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 and Phl p 1 are members fo 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: Lol p 1, Phl p 1.

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 not in all grass pollen species a Grass Group 5/6 allergen has been described. 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).

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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 is 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).

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 5 is a member of the Arginine Esterase allergen family. It is a major allergen in male dogs only. Female and castrated dogs do not express Can f 5 in significant amounts. Also, patients sensitised to Can f 5 may react to human seminal fluid.

Can f 6 is a member of the Lipocalin allergen family (LC). The degree of cross-reactivity to other LCs is low, except for a moderate risk to crossreact with Fel d 4 from cat and Equ c 1 from horse.

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.

Guinea pig

Sensitisation to guinea pig was detected. Allergic symptoms associated with this allergen source range from allergic rhino-conjunctivitis to allergic asthma, especially when exposure is frequent.

Cav p 1 is a member of the Lipocalin allergen family. The degree of cross-reactivity to other members of this family is low.

AIT for causal treatment may not be available. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray). Avoidance is strongly recommended.

Mouse

Sensitisation to mouse was detected. Allergic symptoms associated with this allergen source range from allergic rhino-conjunctivitis to allergic asthma, especially when exposure is frequent (e.g. in laboratory workers).

Mus m 1 is a member of the Lipocalin allergen family. The degree of cross-reactivity to other members of this family is low (Exception: Rat n 1 from rat).

AIT for causal treatment may not be available. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray). Avoidance is strongly recommended.

Rat

Sensitisation to rat was detected. Allergic symptoms associated with rat range from allergic rhino-conjunctivitis to allergic asthma, especially when exposure is frequent (e.g. in laboratory workers).

AIT for causal treatment may not be available. Symptomatic treatment includes anti-histamines as well as local corticosteroids in various formulations (tablet, spray). Avoidance is strongly recommended.

Moulds and Yeasts

Alternaria alternata

Sensitisation to spores from Alternaria alternata was detected. Allergic symptoms associated with A. alternata range from allergic rhinoconjunctivitis to allergic asthma. Alternaria alternata is an outdoor fungal species.

Alt a 6 is a member of the Enolase allergen family. Cross-reactions occur between many different mould species based on allergens from the Enolase family.

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

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 2 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 ALEX2 RESULTS.

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