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REFERRING PHYSICIAN:
TDL

PRINTED ON:
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ADDITIONAL INFORMATION:
Bio-Rad IQC

TEST METHOD:
ALEX^2

ASSAY PERFORMED ON:
28/11/2022

PATIENT ID:
3222650

PATIENT NAME:
Lyphochek Panel A IQC

DATE OF BIRTH:

QR-CODE:
02AQR0E3

TESTED ALLERGENS:
295

APPROVED ON:
28/11/2022

Lab report: Summary on detectable sensitisations

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 kU$_A$/L	0.3 - 1 kU$_A$/L	1 - 5 kU$_A$/L	5 - 15 kU$_A$/L	> 15 kU$_A$/L
Negative or uncertain	Low IgE level	Moderate IgE level	High IgE level	Very high IgE level

Name	E/M	Allergen	Function	kU$_A$/L
POLLEN				
Grass Pollen				
Bermuda grass		Cyn d		1.94
		Cyn d 1	Beta-Expansin	3.23
Perennial Ryegrass		Lol p 1	Beta-Expansin	4.40
Bahia grass		Pas n		1.43
Timothy grass		Phl p 1	Beta-Expansin	5.60
		Phl p 2	Expansin	0.89
		Phl p 5.0101	Grass Group 5/6	5.55
		Phl p 6	Grass Group 5/6	0.73
		Phl p 7	Polcalcin	5.30
		Phl p 12	Profilin	0.28
Common reed		Phr c		0.13
Cultivated rye, Pollen		Sec c_pollen		1.34
Tree Pollen				
Acacia		Aca m		≤ 0.10
Tree of Heaven		Ail a		≤ 0.10
Alder		Aln g 1	PR-10	0.22
		Aln g 4	Polcalcin	8.21
Silver birch		Bet v 1	PR-10	2.59
		Bet v 2	Profilin	0.12
		Bet v 6	Isoflavon Reductase	≤ 0.10
Paper mulberry		Bro pa		≤ 0.10
Hazel pollen		Cor a_pollen		0.21
		Cor a 1.0103	PR-10	0.46
Sugi		Cry j 1	Pectate Lyase	0.99
Cypress		Cup a 1	Pectate Lyase	1.54
		Cup s		0.13
Beech		Fag s 1	PR-10	0.85
Ash		Fra e		≤ 0.10
		Fra e 1	Ole e 1-Family	≤ 0.10
Walnut pollen		Jug r_pollen		0.46
Mountain cedar		Jun a		≤ 0.10
Mulberry		Mor r		≤ 0.10
Olive		Ole e 1	Ole e 1-Family	≤ 0.10

Name	E/M	Allergen	Function	kU$_A$/L
		Ole e 9	1,3 β Glucanase	≤ 0.10
Date palm		Pho d 2	Profilin	0.81
London plane tree		Pla a 1	Plant Invertase	≤ 0.10
		Pla a 2	Polygalacturonase	≤ 0.10
		Pla a 3	nsLTP	0.36
Cottonwood		Pop n		0.11
Elm		Ulm c		≤ 0.10

Weed Pollen

Common Pigweed		Ama r		0.28
Ragweed		Amb a		0.76
		Amb a 1	Pectate Lyase	0.94
		Amb a 4	Plant Defensin	≤ 0.10
Mugwort		Art v		0.30
		Art v 1	Plant Defensin	≤ 0.10
		Art v 3	nsLTP	0.61
Hemp		Can s		≤ 0.10
		Can s 3	nsLTP	0.19
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	0.48
Ribwort		Pla l		≤ 0.10
		Pla l 1	Ole e 1-Family	0.11
Russian thistle		Sal k		≤ 0.10
		Sal k 1	Pectin Methylesterase	0.80
Nettle		Urt d		≤ 0.10

MITES

House Dust Mite

American house dust mite		Der f 1	Cysteine protease	2.43
		Der f 2	NPC2 Family	8.00
European house dust mite		Der p 1	Cysteine protease	2.75
		Der p 2	NPC2 Family	8.40
		Der p 5	unknown	1.30

Name	E/M	Allergen	Function	kU$_A$/L
		Der p 7	Mites, Group 7	0.39
		Der p 10	Tropomyosin	0.23
		Der p 11	Myosin, heavy chain	≤ 0.10
		Der p 20	Arginine kinase	5.89
		Der p 21	unknown	0.62
		Der p 23	Peritrophin-like protein domain	2.87
Storage Mite				
Acarus siro		Aca s		0.18
Blomia tropicalis		Blo t 5	Mites, Group 5	≤ 0.10
		Blo t 10	Tropomyosin	0.35
		Blo t 21	unknown	≤ 0.10
Glycyphagus domesticus		Gly d 2	NPC2 Family	0.78
Lepidoglyphus destructor		Lep d 2	NPC2 Family	0.14
Tyrophagus putrescentiae		Tyr p		0.24
		Tyr p 2	NPC2 Family	≤ 0.10
MICROORGANISMS & SPORES				
Yeast				
Malassezia sympodialis		Mala s 5	unknown	1.96
		Mala s 6	Cyclophilin	0.35
		Mala s 11	Mn Superoxid-Dismutase	1.55
Yeast		Sac c		≤ 0.10
Moulds				
Alternaria alternata		Alt a 1	Alt a 1-Family	10.41
		Alt a 6	Enolase	≤ 0.10
Aspergillus fumigatus		Asp f 1	Mitogillin Family	≤ 0.10
		Asp f 3	Peroxysomal Protein	1.23
		Asp f 4	unknown	≤ 0.10
		Asp f 6	Mn Superoxid-Dismutase	0.14
Cladosporium herbarum		Cla h		≤ 0.10
		Cla h 8	Short Chain Dehydrogenase	≤ 0.10
Penicilium chrysogenum		Pen ch		≤ 0.10

Name	E/M	Allergen	Function	kU$_A$/L
PLANT FOOD				
Legumes				
Peanut		Ara h 1	7/8S Globulin	0.25
		Ara h 2	2S Albumin	0.65
		Ara h 3	11S Globulin	≤ 0.10
		Ara h 6	2S Albumin	≤ 0.10
		Ara h 8	PR-10	0.37
		Ara h 9	nsLTP	0.73
		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	1.73
Lentil		Len c		≤ 0.10
White bean		Pha v		≤ 0.10
Pea		Pis s		≤ 0.10
Cereals				
Oat		Ave s		0.38
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
Wheat		Tri a aA_TI	Alpha-Amylase Trypsin-Inhibitor	≤ 0.10
		Tri a 14	nsLTP	0.66
		Tri a 19	Omega-5-Gliadin	≤ 0.10
Spelt		Tri s		≤ 0.10
Maize		Zea m		0.74
		Zea m 14	nsLTP	1.70

Allergen Extract | Molecular Allergen | IgE < 0.3 negative or uncertain

Name	E/M	Allergen	Function	kU$_A$/L
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
Fruits				
Kiwi		Act d 1	Cysteine protease	≤ 0.10
		Act d 2	TLP	0.14
		Act d 5	Kiwellin	≤ 0.10
		Act d 10	nsLTP	0.68
Papaya		Car p		≤ 0.10
Orange		Cit s		≤ 0.10
Melon		Cuc m 2	Profilin	0.79
Fig		Fic c		≤ 0.10
Strawberry		Fra a 1+3	PR-10+LTP	2.23
Apple		Mal d 1	PR-10	0.89
		Mal d 2	TLP	≤ 0.10
		Mal d 3	nsLTP	1.57
Mango		Man i		≤ 0.10
Banana		Mus a		≤ 0.10
Avocado		Pers a		≤ 0.10
Cherry		Pru av		≤ 0.10
Peach		Pru p 3	nsLTP	1.52
Pear		Pyr c		≤ 0.10
Blueberry		Vac m		0.13
Grapes		Vit v 1	nsLTP	2.38
Vegetables				
Onion		All c		≤ 0.10
Garlic		All s		≤ 0.10
Celery		Api g 1	PR-10	≤ 0.10

Allergen Extract | Molecular Allergen | IgE < 0.3 negative or uncertain

Name	E/M	Allergen	Function	kU$_A$/L
		Api g 2	nsLTP	1.54
		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		0.81
		Ana o 2	11S Globulin	≤ 0.10
		Ana o 3	2S Albumin	0.41
Brazil nut		Ber e		≤ 0.10
		Ber e 1	2S Albumin	≤ 0.10
Pecan		Car i		0.17
Hazelnut		Cor a 1.0401	PR-10	0.89
		Cor a 8	nsLTP	0.27
		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	0.43
		Jug r 2	7/8S Globulin	≤ 0.10
		Jug r 3	nsLTP	0.34
		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
Pistachio		Pis v 1	2S Albumin	0.30
		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

Allergen Extract | Molecular Allergen | IgE < 0.3 negative or uncertain

Name	E/M	Allergen	Function	kU$_A$/L
		Pap s 2S Albumin	2S Albumin	≤ 0.10
Sesame		Ses i		≤ 0.10
		Ses i 1	2S Albumin	≤ 0.10
Fenugreek seeds		Tri fo		≤ 0.10

ANIMAL FOOD

Milk

Cow, milk		Bos d_milk		1.45
		Bos d 4	α-Lactalbumin	≤ 0.10
		Bos d 5	β-Lactoglobulin	0.14
		Bos d 8	Casein	1.36
Camel		Cam d		≤ 0.10
Goat, milk		Cap h_milk		0.30
Mare's milk		Equ c_milk		≤ 0.10
Sheep, milk		Ovi a_milk		0.33

Egg

Egg white		Gal d_white		0.45
Egg yolk		Gal d_yolk		0.12
Egg white		Gal d 1	Ovomucoid	≤ 0.10
		Gal d 2	Ovalbumin	0.20
		Gal d 3	Ovotransferrin	≤ 0.10
		Gal d 4	Lysozym C	≤ 0.10
Egg yolk		Gal d 5	Serum Albumin	0.23

Seafood

Herring worm		Ani s 1	Kunitz Serin Protease Inhibitor	≤ 0.10
		Ani s 3	Tropomyosin	0.36
Crab		Chi spp.		≤ 0.10
Herring		Clu h		0.30
		Clu h 1	β-Parvalbumin	0.84
Brown shrimp		Cra c 6	Troponin C	≤ 0.10
Carp		Cyp c 1	β-Parvalbumin	0.95
Atlantic cod		Gad m		0.43
		Gad m 2+3	β-Enolase & Aldolase	≤ 0.10

Name	E/M	Allergen	Function	kU$_A$/L
		Gad m 1	β-Parvalbumin	0.41
Lobster		Hom g		≤ 0.10
Shrimp		Lit s		≤ 0.10
Squid		Lol spp.		≤ 0.10
Common mussel		Myt e		≤ 0.10
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	2.17
		Pen m 3	Myosin, light chain	0.78
		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	0.52
Atlantic mackerel		Sco s		≤ 0.10
		Sco s 1	β-Parvalbumin	1.51
Tuna		Thu a		≤ 0.10
		Thu a 1	β-Parvalbumin	1.06
Swordfish		Xip g 1	β-Parvalbumin	1.32

Meat

House cricket		Ach d		0.26
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		0.44
Turkey		Mel g		≤ 0.10
Rabbit, meat		Ory_meat		≤ 0.10
Sheep, meat		Ovi a_meat		0.36
Pork		Sus d_meat		≤ 0.10
		Sus d 1	Serum Albumin	1.66
Mealworm		Ten m		≤ 0.10

Allergen Extract | Molecular Allergen | IgE < 0.3 negative or uncertain

Name	E/M	Allergen	Function	kU$_A$/L
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				
German Cockroach	●	Bla g 1	Cockroach Group 1	17.16
	●	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	4.37
American Cockroach	⁘	Per a		6.24
	●	Per a 7	Tropomyosin	0.22
ANIMAL ORIGIN				
Pet				
Dog	●	Can f_Fd1	Uteroglobin	5.79
Male dog urine (incl. Can f 5)	⁘	Can f_male urine		4.52
Dog	●	Can f 1	Lipocalin	5.38
	●	Can f 2	Lipocalin	4.38
	●	Can f 3	Serum Albumin	6.64

Name	E/M	Allergen	Function	kU$_A$/L
		Can f 4	Lipocalin	7.92
		Can f 6	Lipocalin	4.88
Guinea pig		Cav p 1	Lipocalin	≤ 0.10
Cat		Fel d 1	Uteroglobin	6.15
		Fel d 2	Serum Albumin	2.35
		Fel d 4	Lipocalin	1.43
		Fel d 7	Lipocalin	2.02
House mouse		Mus m 1	Lipocalin	0.67
Rabbit, epithel		Ory c 1	Lipocalin	≤ 0.10
		Ory c 2	Lipophilin	≤ 0.10
		Ory c 3	Uteroglobin	≤ 0.10
Djungarian hamster		Phod s 1	Lipocalin	≤ 0.10
Rat		Rat n		0.12

Farm Animals

Cattle		Bos d 2	Lipocalin	≤ 0.10
Goat, epithel		Cap h_epithelia		0.96
Horse, epithel		Equ c 1	Lipocalin	3.28
		Equ c 3	Serum Albumin	0.20
		Equ c 4	Latherin	≤ 0.10
Sheep, epithel		Ovi a_epithelia		≤ 0.10
Pig		Sus d_epithelia		0.43

OTHERS

Latex

Latex		Hev b 1	Rubber elongation factor	≤ 0.10
		Hev b 3	Small rubber particle protein	≤ 0.10
		Hev b 5	unknown	0.28
		Hev b 6.02	Hevein	≤ 0.10
		Hev b 8	Profilin	0.12
		Hev b 11	Class 1 Chitinase	≤ 0.10

Ficus

Weeping fig		Fic b		≤ 0.10

Name	E/M	Allergen	Function	kU_A/L
CCD				
Hom s Lactoferrin	◉	Hom s LF	CCD	≤ 0.10
Parasite				
Pigeon tick	◉	Arg r 1	Lipocalin	≤ 0.10

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