







PATIENT ID:  [REDACTED]	SAMPLED ON:  17/11/2022
PATIENT NAME:  [REDACTED]	ANALYZED ON:  18/11/2022
TEST METHOD:  ALEX ²	APPROVED ON: 18/11/2022
QR-CODE:  02ASX3DE	

Report Summary

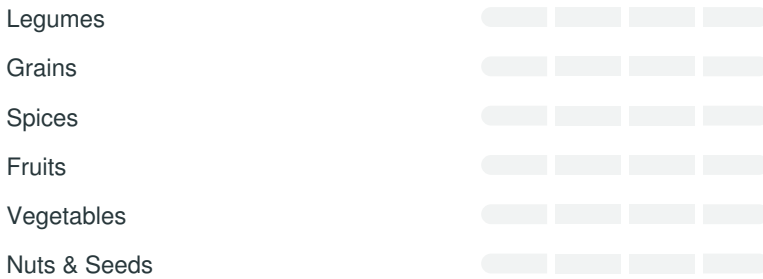
POLLEN



MITES



PLANT-BASED FOOD



INSECTS & VENOMS



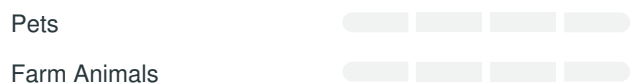
MICROORGANISMS



ANIMAL-DERIVED FOOD



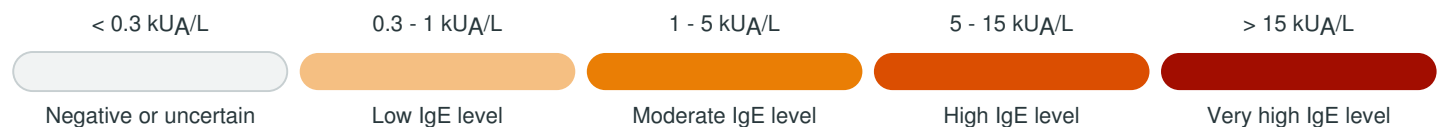
EPITHELIAL TISSUES OF ANIMALS



OTHERS



Highest measured IgE concentration per allergen group



Name	E/M	Allergen	Protein Family	kU _A /L
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POLLEN

Grass Pollen

Bermuda grass (बरमूडा घास)	●●●●	Cyn d		≤ 0.10
	○	Cyn d 1	Beta-Expansin	≤ 0.10
Perennial Ryegrass (राई घास)	○	Lol p 1	Beta-Expansin	≤ 0.10
Bahia grass (बहिया घास)	●●●●	Pas n		≤ 0.10
Timothy grass (टिमोथी घास)	○	Phl p 1	Beta-Expansin	≤ 0.10
	○	Phl p 2	Expansin	≤ 0.10
	○	Phl p 5.0101	Grass Group 5/6	≤ 0.10
	○	Phl p 6	Grass Group 5/6	≤ 0.10
	○	Phl p 7	Polcalcin	≤ 0.10
	○	Phl p 12	Profilin	≤ 0.10
Common reed (आम ईख घास)	●●●●	Phr c		≤ 0.10
Cultivated rye, Pollen (राई)	●●●●	Sec c_pollen		≤ 0.10

Tree Pollen

Acacia (बबूल)	●●●●	Aca m		≤ 0.10
Tree of Heaven (कल्पवृक्ष)	●●●●	Ail a		≤ 0.10
Alder (एल्डर)	○	Aln g 1	PR-10	≤ 0.10
	○	Aln g 4	Polcalcin	≤ 0.10
Silver birch (सिल्वर बर्च पेड़)	○	Bet v 1	PR-10	≤ 0.10
	○	Bet v 2	Profilin	≤ 0.10
	○	Bet v 6	Isoflavon Reductase	≤ 0.10
Paper mulberry (कागज शहतूत का पेड़)	●●●●	Bro pa		≤ 0.10
Hazel pollen (हेज़ल)	●●●●	Cor a_pollen		≤ 0.10
	○	Cor a 1.0103	PR-10	≤ 0.10
Sugi (सुगी का पेड़)	○	Cry j 1	Pectate Lyase	≤ 0.10
Cypress (सरु के पेड़)	○	Cup a 1	Pectate Lyase	≤ 0.10
	●●●●	Cup s		≤ 0.10
Beech (बीच)	○	Fag s 1	PR-10	≤ 0.10
Ash (ऐश)	●●●●	Fra e		≤ 0.10
	○	Fra e 1	Ole e 1-Family	≤ 0.10
Walnut pollen (अखरोट)	●●●●	Jug r_pollen		≤ 0.10
Mountain cedar (पर्वत देवदार पेड़)	●●●●	Jun a		≤ 0.10
Mulberry (शहतूत का पेड़)	●●●●	Mor r		≤ 0.10
Olive (जैतून)	○	Ole e 1	Ole e 1-Family	≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
	○	Ole e 9	1,3 β Glucanase	≤ 0.10
Date palm (खजूरा का पेड़)	○	Pho d 2	Profilin	≤ 0.10
London plane tree (लंदन प्लेन पेड़)	○	Pla a 1	Plant Invertase	≤ 0.10
	○	Pla a 2	Polygalacturonase	≤ 0.10
	○	Pla a 3	nsLTP	≤ 0.10
Cottonwood (कॉटनवुड)	●●●	Pop n		0.16
Elm (एल्म)	●●●	Ulm c		≤ 0.10

Weed Pollen

Common Pigweed (चौलाई का पेड़)	●●●	Ama r		≤ 0.10
Ragweed (रैगवीड)	●●●	Amb a		0.15
	○	Amb a 1	Pectate Lyase	≤ 0.10
	○	Amb a 4	Plant Defensin	≤ 0.10
Mugwort (मगवोर्ट)	●●●	Art v		≤ 0.10
	○	Art v 1	Plant Defensin	≤ 0.10
	○	Art v 3	nsLTP	≤ 0.10
Hemp (गांजा)	●●●	Can s		≤ 0.10
	○	Can s 3	nsLTP	≤ 0.10
Lamb's quarter (बथुआ)	●●●	Che a		≤ 0.10
	○	Che a 1	Ole e 1-Family	≤ 0.10
Annual mercury (एनुअल मर्क्युरी)	○	Mer a 1	Profilin	≤ 0.10
Wall pellitory (दीवार पेलिटरी)	●●●	Par j		≤ 0.10
	○	Par j 2	nsLTP	≤ 0.10
Ribwort (इसबगोल)	●●●	Pla l		≤ 0.10
	○	Pla l 1	Ole e 1-Family	≤ 0.10
Russian thistle (रूसी थीसल पेड़)	●●●	Sal k		≤ 0.10
	○	Sal k 1	Pectin Methylesterase	≤ 0.10
Nettle (बिछुआ का पेड़)	●●●	Urt d		0.15

MITES

House Dust Mite

House dust mite (Dermatophagoides farinae) (धूल में रहने वाला कीट)	○	Der f 1	Cysteine protease	2.35
	○	Der f 2	NPC2 Family	45.39
House dust mite (Dermatophagoides pteronyssinus) (धूल में रहने वाला कीट)	○	Der p 1	Cysteine protease	9.88
	○	Der p 2	NPC2 Family	47.14
	○	Der p 5	unknown	≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
	○	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	6.31

Storage Mite

Acarus siro (एकरस सिरो)	●●●●	Aca s		≤ 0.10
Blomia tropicalis (ब्लोमिया ट्रॉपिकालिस)	○	Blo t 5	Mites, Group 5	≤ 0.10
	○	Blo t 10	Tropomyosin	≤ 0.10
	○	Blo t 21	unknown	≤ 0.10
Glycyphagus domesticus (भंडारण घुन)	○	Gly d 2	NPC2 Family	≤ 0.10
Lepidoglyphus destructor (भंडारण घुन)	○	Lep d 2	NPC2 Family	≤ 0.10
Tyrophagus putrescentiae (भंडारण घुन)	●●●●	Tyr p		≤ 0.10
	○	Tyr p 2	NPC2 Family	≤ 0.10

MICROORGANISMS & SPORES

Yeast (खमीर)

Malassezia sympodialis (मालासेज़िया सिमपोडीयालिस)	○	Mala s 5	unknown	≤ 0.10
	○	Mala s 6	Cyclophilin	≤ 0.10
	○	Mala s 11	Mn Superoxid-Dismutase	≤ 0.10
Yeast (खमीर)	●●●●	Sac c		≤ 0.10

Moulds

Alternaria alternata (अल्टरनेरिया अल्टरनेटा)	○	Alt a 1	Alt a 1-Family	≤ 0.10
	○	Alt a 6	Enolase	≤ 0.10
Aspergillus fumigatus (ऐस्पेर्जिलस फ्यूमिगेटस)	○	Asp f 1	Mitogillin Family	≤ 0.10
	○	Asp f 3	Peroxisomal Protein	≤ 0.10
	○	Asp f 4	unknown	≤ 0.10
	○	Asp f 6	Mn Superoxid-Dismutase	≤ 0.10
Cladosporium herbarum (क्लैडोस्पोरियम हर्बेरम)	●●●●	Cla h		0.10
	○	Cla h 8	Short Chain Dehydrogenase	≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
Penicillium chrysogenum (पेनिसिलियम क्राइसोजेनम)	●●●●	Pen ch		≤ 0.10

PLANT FOOD

Legumes

Peanut (मूंगफली)	○	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 (काबुली चना)	●●●●	Cic a		≤ 0.10
Soy (सोया)	○	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 (दाल)	●●●●	Len c		≤ 0.10
White bean (सफेद सेम)	●●●●	Pha v		≤ 0.10
Pea (मटर)	●●●●	Pis s		≤ 0.10

Cereals (अनाज)

Oat (जई)	●●●●	Ave s		≤ 0.10
Quinoa (कीनुआ)	●●●●	Che q		≤ 0.10
Common buckwheat (कुट्टू)	●●●●	Fag e		≤ 0.10
	○	Fag e 2	2S Albumin	≤ 0.10
Barley (जौ)	●●●●	Hor v		≤ 0.10
Lupine seed (ल्यूपिन के बीज)	●●●●	Lup a		≤ 0.10
Rice (चावल)	●●●●	Ory s		≤ 0.10
Millet (बाजरा)	●●●●	Pan m		≤ 0.10
Cultivated rye (राई)	●●●●	Sec c_flour		≤ 0.10
Wheat (गेहूँ)	○	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 (गेहूँ का प्रकार)	●●●●	Tri s		≤ 0.10
Maize (मक्का)	●●●●	Zea m		≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
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	Zea m 14	nsLTP	≤ 0.10	
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Spices

Paprika (लाल मिर्च)		Cap a		≤ 0.10	
Caraway (जीरा)		Car c		≤ 0.10	
Oregano (ओरिगैनो)		Ori v		≤ 0.10	
Parsley (अजमोद)		Pet c		≤ 0.10	
Anise (संफ)		Pim a		≤ 0.10	
Mustard (सरसअँ)		Sin		≤ 0.10	
		Sin a 1	2S Albumin	≤ 0.10	

Fruits

Kiwi (कीवी)		Act d 1	Cysteine protease	≤ 0.10	
		Act d 2	TLP	≤ 0.10	
		Act d 5	Kiwelin	≤ 0.10	
		Act d 10	nsLTP	≤ 0.10	
Papaya (पपीता)		Car p		≤ 0.10	
Orange (संतरा)		Cit s		≤ 0.10	
खरबूज		Cuc m 2	Profilin	≤ 0.10	
Fig (अंजीर)		Fic c		≤ 0.10	
Strawberry स्ट्रॉबेरी		Fra a 1+3	PR-10+LTP	≤ 0.10	
Apple (सेब)		Mal d 1	PR-10	≤ 0.10	
		Mal d 2	TLP	≤ 0.10	
		Mal d 3	nsLTP	≤ 0.10	
Mango (आम)		Man i		≤ 0.10	
Banana (केला)		Mus a		≤ 0.10	
Avocado (एवोकाडो)		Pers a		≤ 0.10	
Cherry (चेरी)		Pru av		0.11	
Peach (आड़ू)		Pru p 3	nsLTP	≤ 0.10	
Pear (नाशपाती)		Pyr c		≤ 0.10	
Blueberry (ब्लूबेरी/नीलबदरी)		Vac m		≤ 0.10	
Grapes (अंगूर)		Vit v 1	nsLTP	≤ 0.10	

Vegetables

Onion (प्याज़)		All c		≤ 0.10	
Garlic (लहसुन)		All s		≤ 0.10	

Name	E/M	Allergen	Protein Family	kU _A /L
Celery (अजवायन)	○	Api g 1	PR-10	≤ 0.10
	○	Api g 2	nsLTP	≤ 0.10
	○	Api g 6	nsLTP	≤ 0.10
Carrot (गाजर)	●●●●	Dau c		≤ 0.10
	○	Dau c 1	PR-10	≤ 0.10
Potato (आलू)	●●●●	Sol t		≤ 0.10
Tomato (टमाटर)	●●●●	Sola l		≤ 0.10
	○	Sola l 6	nsLTP	≤ 0.10

Nuts

Cashew (काजू)	●●●●	Ana o		≤ 0.10
	○	Ana o 2	11S Globulin	≤ 0.10
	○	Ana o 3	2S Albumin	≤ 0.10
Brazil nut (ब्राज़ील अखरोट)	●●●●	Ber e		≤ 0.10
	○	Ber e 1	2S Albumin	≤ 0.10
Pecan (एक प्रकार का अखरोट)	●●●●	Car i		≤ 0.10
Hazelnut (पिंगल फल)	○	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 (अखरोट)	○	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 (मैकाडामिया)	○	Mac i 2S Albumin	2S Albumin	≤ 0.10
	●●●●	Mac inte		≤ 0.10
Pistachio (पिस्ता)	○	Pis v 1	2S Albumin	≤ 0.10
	○	Pis v 2	11S Globulin subunit	≤ 0.10
	○	Pis v 3	7/8S Globulin	≤ 0.10
Almond (बादाम)	●●●●	Pru du		≤ 0.10

Seed

Pumpkin seed (कद्दू के बीज)	●●●●	Cuc p		≤ 0.10
Sunflower seed (सूरजमुखी के बीज)	●●●●	Hel a		≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
Poppy seed (खसखस)	••••	Pap s		≤ 0.10
	○	Pap s 2S Albumin	2S Albumin	≤ 0.10
Sesame (तिल)	••••	Ses i		≤ 0.10
	○	Ses i 1	2S Albumin	≤ 0.10
Fenugreek seeds (मेथी के बीज)	••••	Tri fo		≤ 0.10

ANIMAL FOOD

Milk (दूध)

Cow, milk (गाय का दूध)	••••	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 (ऊँट)	••••	Cam d		≤ 0.10
Goat, milk (बकरी का दूध)	••••	Cap h_milk		≤ 0.10
Mare's milk (घोड़ी का दूध)	••••	Equ c_milk		≤ 0.10
Sheep, milk (भेड़ का दूध)	••••	Ovi a_milk		≤ 0.10

Egg (अंडे)

Egg white (अंडे का सफेद भाग)	••••	Gal d_white		≤ 0.10
Egg yolk (अंडे का पीला भाग)	••••	Gal d_yolk		≤ 0.10
Egg white (अंडे का सफेद भाग)	○	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 (अंडे का पीला भाग)	○	Gal d 5	Serum Albumin	≤ 0.10

Seafood

Herring (हेरिंग कीड़ा)	○	Ani s 1	Kunitz Serin Protease Inhibitor	≤ 0.10
	○	Ani s 3	Tropomyosin	≤ 0.10
Crab (केकड़ा)	••••	Chi spp.		≤ 0.10
Herring (हेरिंग मछली)	••••	Clu h		≤ 0.10
	○	Clu h 1	β-Parvalbumin	≤ 0.10
Brown shrimp (झींगा)	○	Cra c 6	Troponin C	≤ 0.10
Carp (कार्प मछली)	○	Cyp c 1	β-Parvalbumin	≤ 0.10
Atlantic cod (अटलांटिक कोड)	••••	Gad m		≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
	⊙	Gad m 2+3	β-Enolase & Aldolase	≤ 0.10
	⊙	Gad m 1	β-Parvalbumin	≤ 0.10
Lobster (झींगा मछली)	⊙	Hom g		≤ 0.10
Shrimp (झींगा)	⊙	Lit s		≤ 0.10
Squid (स्क्वड)	⊙	Lol spp.		≤ 0.10
Common mussel (शम्बुक)	⊙	Myt e		≤ 0.10
Oyster (सीप)	⊙	Ost e		≤ 0.10
Shrimp (झींगा)	⊙	Pan b		≤ 0.10
Scallop (घअँघा, एक प्रकार की सीप)	⊙	Pec spp.		≤ 0.10
Black Tiger Shrimp (टाइगर झींगा)	⊙	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 (थॉर्नबैक रे)	⊙	Raj c		≤ 0.10
	⊙	Raj c Parvalbumin	α-Parvalbumin	≤ 0.10
Clam (बड़ी सीप)	⊙	Rud spp.		≤ 0.10
Salmon (सैल्मन मछली)	⊙	Sal s		≤ 0.10
	⊙	Sal s 1	β-Parvalbumin	≤ 0.10
Atlantic mackerel (अटलांटिक मैकेरल मछली)	⊙	Sco s		≤ 0.10
	⊙	Sco s 1	β-Parvalbumin	≤ 0.10
Tuna (टूना मछली)	⊙	Thu a		0.11
	⊙	Thu a 1	β-Parvalbumin	≤ 0.10
Swordfish (स्वोर्डफिश)	⊙	Xip g 1	β-Parvalbumin	≤ 0.10

Meat

House cricket (झींगुर)	⊙	Ach d		≤ 0.10
Cattle, meat (भैंस/बैल/गाय का मांस)	⊙	Bos d_meat		≤ 0.10
	⊙	Bos d 6	Serum Albumin	≤ 0.10
Horse, meat (घोड़े का मांस)	⊙	Equ c_meat		≤ 0.10
Chicken meat (मुर्गी का मांस)	⊙	Gal d_meat		≤ 0.10
Migratory locust (टिड्डी)	⊙	Loc m		≤ 0.10
Turkey (टर्की या पेरू एक बड़े आकार का पक्षी)	⊙	Mel g		≤ 0.10
Rabbit, meat (खरगोश का मांस)	⊙	Ory_meat		≤ 0.10
Sheep, meat (भेड़ का मांस)	⊙	Ovi a_meat		≤ 0.10
Pork (सुअर का मांस)	⊙	Sus d_meat		≤ 0.10
	⊙	Sus d 1	Serum Albumin	≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
Mealworm (मीलवर्म्स)	••••	Ten m		≤ 0.10

INSECTS & VENOMS

Fire ant poison (आग चींटी का विष)

Fire ant (आग चींटी)	••••	Sol spp.		≤ 0.10
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Honey Bee Venom (मधुमक्खी का विष)

Honey Bee (मधुमक्खी)	••••	Api m		≤ 0.10
	○	Api m 1	Phospholipase A2	0.22
	○	Api m 10	Icarapin Variant 2	≤ 0.10

Wasp Venom (आम ततैया का विष)

Hornet	••••	Dol spp		≤ 0.10
Paper wasp venom (कागज ततैया का विष)	••••	Pol d		≤ 0.10
	○	Pol d 5	Antigen 5	≤ 0.10
Wasp venom (ततैया का विष)	••••	Ves v		≤ 0.10
	○	Ves v 1	Phospholipase A1	≤ 0.10
	○	Ves v 5	Antigen 5	≤ 0.10

Cockroach

Cockroach (Blattella germanica) (तिलचट्टा)	○	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
Cockroach (Periplaneta americana) (तिलचट्टा)	••••	Per a		≤ 0.10
	○	Per a 7	Tropomyosin	≤ 0.10

ANIMAL ORIGIN

Pet

Dog (कुत्ता)	○	Can f_Fd1	Uteroglobin	≤ 0.10
Male dog urine (incl. Can f 5) नर कुत्ते का मूत्र	••••	Can f_male urine		≤ 0.10
Dog (कुत्ता)	○	Can f 1	Lipocalin	≤ 0.10
	○	Can f 2	Lipocalin	≤ 0.10

Name	E/M	Allergen	Protein Family	kU _A /L
	○	Can f 3	Serum Albumin	≤ 0.10
	○	Can f 4	Lipocalin	≤ 0.10
	○	Can f 6	Lipocalin	≤ 0.10
Guinea pig (गिनी पिग)	○	Cav p 1	Lipocalin	≤ 0.10
Cat (बिल्ली)	○	Fel d 1	Uteroglobin	≤ 0.10
	○	Fel d 2	Serum Albumin	≤ 0.10
	○	Fel d 4	Lipocalin	≤ 0.10
	○	Fel d 7	Lipocalin	≤ 0.10
Mouse (चूहा)	○	Mus m 1	Lipocalin	≤ 0.10
Rabbit, epithel (खरगोश)	○	Ory c 1	Lipocalin	≤ 0.10
	○	Ory c 2	Lipophilin	≤ 0.10
	○	Ory c 3	Uteroglobin	≤ 0.10
Djungarian hamster (जुंगेरियन हैमस्टर)	○	Phod s 1	Lipocalin	≤ 0.10
Rat (चूहा)	●●●	Rat n		≤ 0.10

Farm Animals

Cattle (गाय)	○	Bos d 2	Lipocalin	≤ 0.10
Goat, epithel (बकरी)	●●●	Cap h_epithelia		≤ 0.10
Horse, epithel (घोड़ा)	○	Equ c 1	Lipocalin	≤ 0.10
	○	Equ c 3	Serum Albumin	≤ 0.10
	○	Equ c 4	Latherin	≤ 0.10
Sheep, epithel (भेड़)	●●●	Ovi a_epithelia		≤ 0.10
Pig (सुअर)	●●●	Sus d_epithelia		≤ 0.10

OTHERS

Latex (रबड़-क्षीर)

Latex (रबड़-क्षीर)	○	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 (पुकर)	●●●	Fic b		≤ 0.10
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Name	E/M	Allergen	Protein Family	kU _A /L
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CCD

Hom s Lactoferrin (होम एस लैक्टोफेरिन)	<input checked="" type="radio"/>	Hom s LF	CCD	≤ 0.10
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Parasite

Pigeon tick (कबूतर टिक)	<input checked="" type="radio"/>	Arg r 1	Lipocalin	≤ 0.10
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Total IgE: 174 kU/L

Reference range total-IgE

Adults: < 100 kU/L

SAMPLED ON 17/11/2022	PRINTED ON 18/11/2022
ASSAY PERFORMED ON 18/11/2022	APPROVED ON 18/11/2022

Information to cross-reactive allergens

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	Protein Family	kU _A /L
House dust mite (Dermatophagoides farinae) (धूल में रहने वाला कीट)	<input checked="" type="radio"/>	Der f 2	NPC2 Family	45.39
House dust mite (Dermatophagoides pteronyssinus) (धूल में रहने वाला कीट)	<input checked="" type="radio"/>	Der p 2	NPC2 Family	47.14

ALEX² – Number of tested allergen sources:

165



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



COCKROACH **2**
American cockroach, German cockroach



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



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



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



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



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



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



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



EGG **2**
Egg white, Egg yolk



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



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



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



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



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



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



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



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



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



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



INTERPRETATION GUIDANCE SOFTWARE

Interpretation - Support

Raven Interpretation Summary

Sample Information

The sample was tested on ALEX² Barcode 02ASX3DE, interpretation date 18/11/2022.

Of the tested 295 allergens, 5 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: 174 kU/L

The measured total IgE was 174 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:

- Cysteine Proteases: Der f 1, Der p 1

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.

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 p 2 & Der f 2 are members of the NPC2 allergen family. The degree of cross-reactivity between different members of the NPC2 is very high in different house dust mites and less so to related allergens in storage mites. Both Der p 2 and Der 2 serve as markers for AIT indication. Positive results were obtained for: Der f 2, Der p 2.

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).

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.