






























Common Name	Scientific name	E/M Allergen	Function
<b>PAX ENVIRONMENTAL PANEL</b>			
<b>GRASS POLLENS</b>			
Bermuda grass	Cynodon dactylon	 Cyn d	
		 Cyn d 1	Beta-Expansin
Kentucky blue grass	Poa pratensis	 Poa p	
Meadow fescue	Festuca pratensis	 Fes p	
Orchard grass	Dactylis glomerata	 Dac g	
Perennial ryegrass	Lolium perenne	 Lol p 1	Beta-Expansin
Rye, cultivated	Secale cereale	 Sec c_pollen	
Timothy grass	Phleum pratense	 Phl p 1	Beta-Expansin
		 Phl p 2	Expansin
		 Phl p 5.0101	Grass Group 5/6
		 Phl p 6	Grass Group 5/6
		 Phl p 7	Polcalcin
		 Phl p 12	Profilin
<b>WEED POLLENS</b>			
Dock / Sorrel	Rumex acetosella / crispus	 Rum a_Rum c	
English Plantain	Plantago lanceolata	 Pla l	
		 Pla l 1	Ole e 1-Family
Lamb's quarter	Chenopodium album	 Che a	
		 Che a 1	Ole e 1-Family
Mugwort	Artemisia vulgaris	 Art v	
		 Art v 1	Plant Defensin
		 Art v 3	nsLTP
Nettle	Urtica dioica	 Urt d	
Pellitory	Parietaria judaica	 Par j	
		 Par j 2	nsLTP
Ragweed	Ambrosia artemisiifolia	 Amb a	
		 Amb a 1	Pectate Lyase
		 Amb a 4	Plant Defensin
Russian thistle	Salsola kali	 Sal k	
		 Sal k 1	Pectin methylesterase


























# PAX

pet allergy xplorer














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## PAX ENVIRONMENTAL PANEL

### TREE POLLENS

Alder	Alnus glutinosa	 Aln g	
		 Aln g 1	PR-10
		 Aln g 4	Polcalcin
Ash	Fraxinus excelsior	 Fra e	
		 Fra e 1	Ole e 1-Family
Beech	Fagus sylvatica	 Fag s 1	PR-10
Birch	Betula verrucosa	 Bet v	
		 Bet v 1	PR-10
		 Bet v 2	Profilin
		 Bet v 6	Isoflavon reductase
Cypress	Cupressus sempervirens	 Cup s	
Elm	Ulmus campestris	 Ulm c	
Hazel	Corylus avellana	 Cor a_pollen	
		 Cor a 1.0103	PR-10
Olive tree	Olea europaea	 Ole e_pollen	
		 Ole e 1	Ole e 1-family
		 Ole e 7	nsLTP
		 Ole e 9	1,3 Beta-glucanase
Poplar / Cottonwood	Populus nigra	 Pop n	
Privet	Ligustrum vulgare	 Lig v	
		 Pla a 1	Plant invertase
Sycamore	Platanus acerifolia	 Pla a 2	Polygalacturonase
		 Pla a 3	nsLTP

### EPITHELIA

Cat	Felis domesticus	 Fel d 1	Uteroglobulin
		 Fel d 2	Serum albumin
		 Fel d 4	Lipocalin
		 Fel d 7	Lipocalin
Cattle	Bos domesticus	 Bos d 2	Lipocalin
Guinea pig	Cavia porcellus	 Cav p 1	Lipocalin
Horse	Equus caballus	 Equ c 1	Lipocalin
		 Equ c 3	Serum albumin
		 Equ c 4	Latherin
Mouse	Mus musculus	 Mus m 1	Lipocalin
Rabbit	Oryctolagus cuniculus	 Ory c 1	Lipocalin
		 Ory c 2	Lipocalin
		 Ory c 3	Uteroglobulin

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PAX ENVIRONMENTAL PANEL			

## MITES & COCKROACHES

Acarus siro	Acarus siro	☰ Aca s	
American cockroach	Periplaneta americana	⦿ Per a 6	Troponin C
		⦿ Per a 7	Tropomyosin
D. farinae	D. farinae	☰ Der f	
		⦿ Der f 1	Cysteine protease
		⦿ Der f 2	NPC2 family
		⦿ Der f 15	Chitinase
		⦿ Der f 18	Chitin-binding protein
D. pteronyssinus	D. pteronyssinus	☰ Der p	
		⦿ Der p 1	Cysteine protease
		⦿ Der p 2	NPC2 Family
		⦿ Der p 5	Mite Group 5/21
		⦿ Der p 7	Mite Group 7
		⦿ Der p 10	Tropomyosin
		⦿ Der p 11	Myosin, heavy chain
		⦿ Der p 20	Arginine kinase
		⦿ Der p 21	Mite Group 5/21
		⦿ Der p 23	Peritrophin-like protein domain
Flea	Ctenocephalides felis	⦿ Cte f 1	
German cockroach	Blattella germanica	⦿ Bla g 1	Cockroach group 1
		⦿ Bla g 2	Aspartyl protease
		⦿ Bla g 4	Lipocalin
		⦿ Bla g 5	Glutathione S-transferase
		⦿ Bla g 9	Arginine kinase
Glycyphagus domesticus	Glycyphagus domesticus	⦿ Gly d 2	NPC2 family
Lepidoglyphus destructor	Lepidoglyphus destructor	☰ Lep d	
		⦿ Lep d 2	NPC2 family
Tyrophagus putrescentiae	Tyrophagus putrescentiae	☰ Tyr p	
		⦿ Tyr p 2	NPC2 family



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## MOULDS & YEASTS























Alternaria alternata		Alt a	
		Alt a 1	Alt a 1-Family
		Alt a 6	Enolase
Aspergillus fumigatus		Asp f	
		Asp f 1	Mitogillin Family
		Asp f 3	Peroxisomal Protein
		Asp f 4	
		Asp f 6	Mn superoxide-dismutase
Cladosporium herbarum		Cla h	
		Cla h 8	Short-chain dehydrogenase
Malassezia	Malassezia pachydermatis	Mala p	
	Malassezia sympodialis	Mala s 1	Peroxisomal Protein
		Mala s 5	Redoxin
		Mala s 6	Cyclophilin
		Mala s 9	
		Mala s 11	Mn superoxide-dismutase




















## INSECT VENOMS





























Common wasp venom	Vespula vulgaris	Ves v	
		Ves v 1	Phospholipase A1
		Ves v 5	Antigen 5
Fire ant venom	Solenopsis richteri & S. invicta	Sol spp	
Honey bee venom	Apis mellifera	Api m	
		Api m 1	Phospholipase A2
		Api m 2	Hyaluronidase
		Api m 3	Acid phosphatase
		Api m 5	Dipeptidylpeptidase IV
		Api m 10	Icarapin variant 2
Long-headed wasp venom	Dolichovespula spp.	Dol spp	
Paper wasp venom	Polistes dominulus	Pol d	
		Pol d 5	Antigen 5

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PAX FOOD PANEL			

## MEATS

Beef	Bos domesticus	 Bos d_meat	
		 Bos d 6	Serum albumin
		 Bos d 7	Immunoglobulin G
		 Bos d_ACTA1	Alpha actin
		 Bos d_LDHA	Lactate dehydrogenase A
Chicken	Gallus domesticus	 Gal d_meat	
		 Gal d 7	Myosin light chain
		 Gal d 9	Beta-enolase (enolase -3)
		 Gal d_PKM	Pyruvate kinase M
Horse	Equus caballus	 Equ c_meat	
Lamb	Ovis aries	 Ovi a_meat	
		 Ovi a_IgG	Immunoglobulin G
Mealworm	Tenebrio molitor	 Ten m	
Pork	Sus domesticus	 Sus d_meat	
		 Sus d 1	Serum albumin
Rabbit	Oryctolagus cuniculus	 Ory_meat	
		 Ory c_CKM	Creatine kinase M
		 Ory c_GAPDH	GAPDH
		 Ory c_PGM1	Phosphoglucomutase-1
		 Ory c_PKM	Pyruvate kinase M
		 Ory c_TPI1	Triose phosphate isomerase 1
Turkey	Meleagris gallopavo	 Mel g	

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PAX FOOD PANEL			
CEREALS & SEEDS			
Barley	Hordeum vulgare	 Hor v	
Buckwheat	Fagopyrum esculentum	 Fag e	
Corn, cereal	Zea mays	 Fag e 2	2S albumin
		 Zea m	
		 Zea m 14	nsLTP
		 Zea m_GBSSI	Granule-bound starch synthase 1
Millet	Panicum miliaceum	 Pan m	
Oat	Avena sativa	 Ave s	
Rice	Oryza sativa	 Ory s	
Rye, cultivated	Secale cereale	 Ory s_GLUB1	Glutelin B1
		 Sec c_flour	
		 Hel a	
		 Tri a	
Sunflower seed	Helianthus annuus	 Hel a	
Wheat	Triticum aestivum	 Tri a 14	nsLTP
		 Tri a 19	Omega-5-gliadin
		 Tri a aA_TI	Alpha-amylase trypsin-inhibitor
		EGG & MILK	
Cow's milk	Bos domesticus	 Bos d_milk	
		 Bos d 4	Alpha-lactalbumin
		 Bos d 5	Beta-lactoglobulin
		 Bos d 8	Casein
Egg white	Gallus domesticus	 Gal d_white	
		 Gal d 1	Ovomucoid
		 Gal d 2	Ovalbumin
		 Gal d 3	Ovotransferrin
		 Gal d 4	Lysozym C
Egg yolk	Gallus domesticus	 Gal d_yolk	
		 Gal d 5	Serum albumin

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PAX FOOD PANEL			
LEGUMES & NUTS			
Lentil	Lens culinaris	 Len c	
		 Len c 1	7/8S globulin
		 Len c 2	Seed-specific biotinylated protein
		 Len c 3	nsLTP
Pea	Pisum sativum	 Pis s	
		 Pis s 1	7/8S globulin
		 Pis s 2	7/8S globulin
		 Pis s 3	nsLTP
Peanut	Arachis hypogaea	 Ara h 1	7/8S globulin
		 Ara h 2	2S albumin
		 Ara h 3	11S globulin
		 Ara h 5	Profilin
		 Ara h 6	2S albumin
		 Ara h 8	PR-10
		 Ara h 9	nsLTP
		 Ara h 15	Oleosin
Soybean	Glycine max	 Gly m	
		 Gly m 4	PR-10
		 Gly m 5	7/8S globulin
		 Gly m 6	11S globulin
		 Gly m 8	2S albumin
VEGETABLES & TUBERS			
Carrot	Daucus carota	 Dau c	
		 Dau c 1	PR-10
Potato	Solanum tuberosum	 Sol t	
		 Sol t 2	Aspartic protease inhibitor
		 Sol t_GBSSI	Granule-bound starch synthase 1
Tomato	Solanum lycopersicum	 Sola l	
		 Sola l 6	nsLTP





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## FRUITS

Apple	Malus domestica	<input checked="" type="radio"/> Mal d 1	PR-10
		<input checked="" type="radio"/> Mal d 2	Thaumatin-like protein
		<input checked="" type="radio"/> Mal d 3	nsLTP

## FISH

Cod, Atlantic	Gadus morhua	<input type="checkbox"/> Gad m	
		<input checked="" type="radio"/> Gad m 1	Beta-parvalbumin
		<input checked="" type="radio"/> Gad m 2+3	Aldolase/Beta-enolase (enolase -3)
		<input checked="" type="radio"/> Gad m 4	Tropomyosin
Herring, Atlantic	Clupea harengus	<input type="checkbox"/> Clu h	
		<input checked="" type="radio"/> Clu h 1	Beta-parvalbumin
Mackerel, Atlantic	Scomber scombrus	<input type="checkbox"/> Sco s	
		<input checked="" type="radio"/> Sco s 1	Beta-parvalbumin
Salmon, Atlantic	Salmo salar	<input type="checkbox"/> Sal s	
		<input checked="" type="radio"/> Sal s 1	Beta-parvalbumin
		<input checked="" type="radio"/> Sal s 2	Beta-enolase (enolase -3)
		<input checked="" type="radio"/> Sal s 3	Aldolase
		<input checked="" type="radio"/> Sal s 4	Tropomyosin
		<input checked="" type="radio"/> Sal s 6	Collagen
		<input checked="" type="radio"/> Sal s 7	Creatine kinase M
		<input checked="" type="radio"/> Sal s 8	Triosephosphate isomerase 1
Tuna	Thunnus albacares	<input type="checkbox"/> Thu a	
		<input checked="" type="radio"/> Thu a 1	Beta-parvalbumin