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295 Test Parameters

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Animal

Pets and animal-related particles may trigger allergy symptoms in sensitive individuals

Includes

- Pets
- Farm Animals
- Fur & Feathers

Food

Some foods can trigger allergic reactions, even in small amounts.

Includes

- Legumes
- Grains
- Spices
- Fruits,
- Vegetables
- Milk
- Egg
- Seafood
- Meat
- Nuts & Seeds

Insects & Venoms

Some allergic reactions are caused by insects, bites, or venom exposure.

Includes

- Ants
- Bees & Wasps Venom
- Cockroaches

Mites

Mites are tiny allergens commonly found in dust, bedding, curtains, and carpets.

Includes

- House Dust Mites
- Storage Mites

Seasonal

Outdoor allergens like grass, tree, and weed particles may trigger seasonal allergies.

Includes

- Grass Pollen
- Tree Pollen
- Weed Pollen

Other

Allergies

Some allergies may also be linked to common materials and environmental factors.

Includes

- Latex
- Ficus
- CCD
- Parasite

POLLEN

Grass Pollen

Sl. No.	Allergen	Component	Marker
1	Bermuda grass	Cyn d	
2		Cyn d 1	Beta-Expansin
3	Perennial Ryegrass	Lol p 1	Beta-Expansin
4	Bahia grass	Pas n	
5	Timothy grass	Phl p 1	Beta-Expansin
6		Phl p 2	Expansin
7		Phl p 5.0101	Grass Group 5/6
8		Phl p 6	Grass Group 5/6
9		Phl p 7	Polcalcin
10		Phl p 12	Profilin
11	Common reed	Phr c	
12	Cultivated rye, Pollen	Sec c_pollen	

Tree Pollen

Sl. No.	Allergen	Component	Marker
13	Acacia	Aca m	
14	Tree of Heaven	Ail a	
15	Alder	Aln g 1	PR-10
16		Aln g 4	Polcalcin
17	Silver birch	Bet v 1	PR-10
18		Bet v 2	Profilin
19		Bet v 6	Isoflavon Reductase
20	Paper mulberry	Bro pa	

21	Hazel pollen	Cor a_pollen	
22		Cor a 1.0103	PR-10
23	Sugi	Cry j 1	Pectate Lyase
24	Cypress	Cup a 1	Pectate Lyase
25		Cup s	
26	Beech	Fag s 1	PR-10
27	Ash	Fra e	
28		Fra e 1	Ole e 1-Family
29	Walnut pollen	Jug r_pollen	
30	Mountain cedar	Jun a	Beta-Expansin
31	Mulberry	Mor r	
32	Olive	Ole e 1	Ole e 1-Family
33		Ole e 9	1,3 β Glucanase
34	Date palm	Pho d 2	Profilin
35	London plane tree	Pla a 1	Plant Invertase
36		Pla a 2	Polygalacturonase
37		Pla a 3	nsLTP
38	Cottonwood	Pop n	
39	Elm	Ulm c	

Weed Pollen

Sl. No.	Allergen	Component	Marker
40	Common Pigweed	Ama r	
41	Ragweed	Amb a	
42		Amb a 1	Pectate Lyase

43		Amb a 4	Plant Defensin
44	Mugwort	Art v	
45		Art v 1	Plant Defensin
46		Art v 3	nsLTP
47	Hemp	Can s	
48		Can s 3	nsLTP
49	Lamb's quarter	Che a	PR-10
50		Che a 1	Ole e 1-Family
51	Annual mercury	Mer a 1	Profilin
52	Wall pellitory	Par j	
53		Par j 2	nsLTP
54	Ribwort	Pla l	
55		Pla l 1	Ole e 1-Family
56	Russian thistle	Sal k	
57		Sal k 1	Pectin Methylesterase
58	Nettle	Urt d	

MITES

House Dust Mite

Sl. No.	Allergen	Component	Marker
59	American house dust mite	Der f 1	Cysteine protease
60		Der f 2	NPC2 Family
61	European house dust mite	Der p 1	Cysteine protease
62		Der p 2	NPC2 Family
63		Der p 5	unknown
64		Der p 7	Mites, Group 7
65		Der p 10	Tropomyosin
66		Der p 11	Myosin, heavy chain

67		Der p 20	Arginine kinase
68		Der p 21	unknown
69		Der p 23	Peritrophin like protein domain

Storage Mite

Sl. No.	Allergen	Component	Marker
70	Acarus siro	Aca s	
71	Blomia tropicalis	Blo t 5	Mites, Group 5
72		Blo t 10	Tropomyosin
73		Blo t 21	unknown
74	Glycyphagus domesticus	Gly d 2	NPC2 Family
75	Lepidoglyphus destructor	Lep d 2	NPC2 Family
76	Tyrophagus putrescentiae	Tyr p	
77		Tyr p 2	NPC2 Family

MICROORGANISMS & SPORES

Yeast

Sl. No.	Allergen	Component	Marker
78	Malassezia sympodialis	Mala s 5	unknown
79		Mala s 6	Cyclophilin
80		Mala s 11	Mn Superoxid Dismutase
81	Yeast	Sac c	

Moulds

Sl. No.	Allergen	Component	Marker
82	Alternaria alternata	Alt a 1	Alt a 1-Family
83		Alt a 6	Enolase
84	Aspergillus fumigatus	Asp f 1	Mitogillin Family
85		Asp f 3	Peroxysomal Protein
86		Asp f 4	unknown
87		Asp f 6	Mn Superoxid Dismutase
88	Aspergillus fumigatus	Cla h	
89		Cla h 8	Short Chain Dehydrogenase
90	Penicillium chrysogenum	Pen ch	

PLANT FOOD

Legumes

Sl. No.	Allergen	Component	Marker
91	Peanut	Ara h 1	7/8S Globulin
92		Ara h 2	2S Albumin
93		Ara h 3	11S Globulin
94		Ara h 6	2S Albumin
95		Ara h 8	PR-10
96		Ara h 9	nsLTP
97		Ara h 15	Oleosin
98	Chickpea	Cic a	
99	Soy	Gly m 4	PR-10
100		Gly m 5	7/8S Globulin
101		Gly m 6	11S Globulin
102		Gly m 8	2S Albumin

103	Lentil	Len c	
104	White bean	Pha v	
105	Pea	Pis s	

Cereals

Sl. No.	Allergen	Component	Marker
106	Oat	Ave s	
107	Quinoa	Che q	
108	Common buckwheat	Fag e	
109		Fag e 2	2S Albumin
110	Barley	Hor v	
111	Lupine seed	Lup a	
112	Rice	Ory s	
113	Millet	Pan m	
114	Cultivated rye	Sec c_flour	
115	Wheat	Tri a aA_TI	Alpha-Amylase Trypsin-Inhibitor
116		Tri a 14	nsLTP
117		Tri a 19	Omega-5-Gliadin
118	Spelt	Tri s	
119	Maize	Zea m	
120		Zea m 14	nsLTP

Spices

Sl. No.	Allergen	Component	Marker
121	Paprika	Cap a	
122	Caraway	Car c	
123	Oregano	Ori v	
124	Parsley	Pet c	
125	Anise	Pim a	
126	Mustard	Sin	
127		Sin a 1	2S Albumin

Fruit

Sl. No.	Allergen	Component	Marker
128	Kiwi	Act d 1	Cysteine protease
129		Act d 2	LTP
130		Act d 5	Kiwellin
131		Act d 10	nsLTP
132	Papaya	Car p	
133	Orange	Cit s	
134	Melon	Cuc m 2	Profilin
135	Fig	Fic c	
136	Strawberry	Fra a 1+3	PR-10+LTP
137	Apple	Mal d 1	PR-10
138		Mal d 2	LTP
139		Mal d 3	nsLTP
140	Mango	Man i	
141	Banana	Mus a	
142	Avocado	Per s a	
143	Cherry	Pru av	
144	Peach	Pru p 3	nsLTP

145	Pear	Pyr c	
146	Blueberry	Vac m	
147	Grapes	Vit v 1	nsLTP

Vegetables

Sl. No.	Allergen	Component	Marker
148	Onion	All c	
149	Garlic	All s	
150	Celery	Api g 1	PR-10
151		Api g 2	nsLTP
152		Api g 6	
153	Carrot	Dau c	
154		Dau c 1	PR-10
155	Potato	Sol t	
156	Tomato	Sol a	PR-10+LTP
157		Sola l 6	nsLTP

Nuts

Sl. No.	Allergen	Component	Marker
158	Cashew	Ana o	
159		Ana o 2	11S Globulin
160		Ana o 3	2S Albumin
161	Brazil nut	Ber e	
162		Ber e 1	2S Albumin
163	Pecan	Car i	
164	Hazelnut	Cor a 1.0401	PR-10
165		Cor a 8	nsLTP

166		Cor a 9	11S Globulin
167		Cor a 11	7/8S Globulin
168		Cor a 14	2S Albumin
169	Walnut	Jug r 1	2S Albumin
170		Jug r 2	7/8S Globulin
171		Jug r 3	nsLTP
172		Jug r 4	11S Globulin
173		Jug r 6	7/8S Globulin
174	Macadamia	Mac inte	
175		Mac i 25 Albumin	2S Albumin
176	Pistachio	Pis v 1	2S Albumin
177		Pis v 2	11S Globulin subunit
178		Pis v 3	7/8S Globulin
179	Almond	Pru du	

Seed

Sl. No.	Allergen	Component	Marker
180	Pumpkin seed	Cuc p	
181	Sunflower seed	Hel a	
182	Poppy seed	Pap s	
183		Pap s 2S Albumin	2S Albumin
184	Sesame	Ses i	
185		Ses i 1	2S Albumin
186	Fenugreek seeds	Tri fo	

ANIMAL FOOD

Milk

Sl. No.	Allergen	Component	Marker
187	Cow milk	Bos d milk	7/8S Globulin
188		Bos d 4	α-Lactalbumin
189		Bos d 5	β-Lactoglobulin
190		Bos d 8	Casein
191	Camel	Cam d	
192	Goat milk	Cap h milk	
193	Mare's milk	Equ c milk	
194	Sheep milk	Ovi a milk	

Egg

Sl. No.	Allergen	Component	Marker
195	Egg white	Gal d white	
196	Egg yolk	Gal d yolk	
197	Egg white	Gal d 1	Ovomucoid
198		Gal d 2	Ovalbumin
199		Gal d 3	Ovotransferrin
200		Gal d 4	Lysozym C
201	Egg yolk	Gal d 5	Serum Albumin

Seafood

Sl. No.	Allergen	Component	Marker
202	Herring worm	Ani s 1	Kunitz Serin Protease Inhibitor
203		Ani s 3	Tropomyosin
204	Crab	Chi spp.	
205	Herring	Clu h	

206		Clu h 1	β-Parvalbumin
207	Brown shrimp	Cra c 6	Troponin C
208	Carp	Cyp c 1	β-Parvalbumin
209	Atlantic cod	Gad m	
210		Gad m 2+3	β-Enolase Aldolase
211		Gad m 1	β-Parvalbumin
212	Lobster	Hom g	
213	Shrimp	Lit s	
214	Squid	Lol spp.	
215	Common mussel	Myt e	
216	Oyster	Ost e	
217	Shrimp	Pan b	
218	Scallop	Pec spp.	
219	Black Tiger Shrimp	Pen m 1	Tropomyosin
220		Pen m 2	Arginine kinase
221		Pen m 3	Myosin, light chain
222		Pen m 4	Sarcoplasmic Calcium Binding Protein
223	Thornback ray	Raj c	
224		Raj c Parvalbumin	β-Parvalbumin
225	Clam	Rud spp.	
226	Salmon	Sal s	
227		Sal s 1	β-Parvalbumin
228	Atlantic mackerel	Sco s	
229		Sco s 1	β-Parvalbumin
230	Tuna	Thu a	
231		Thu a 1	β-Parvalbumin
232	Swordfish	Xip g 1	β-Parvalbumin

Meat

Sl. No.	Allergen	Component	Marker
233	House cricket	Ach d	
234	Cattle, meat	Bos d, meat	
235		Bos d 6	Serum Albumin
236	Boar, meat	Equ c meat	
237	Chicken meat	Gal d, meat	
238	Migratory locust	Loc m	
239	Turkey	Mel g	
240	Rabbit, meat	Ory c meat	
241	Sheep, meat	Ovi a, meat	
242	Pork	Sus d, meat	
243		Sus d 1	Serum Albumin
244	Mealworm	Ten m	

INSECTS & VENOMS

Fire Ant Poison

Sl. No.	Allergen	Component	Marker
245	Fire ant	Sol spp.	

Honey Bee Venom

Sl. No.	Allergen	Component	Marker
246	Honey bee	Api m	
247		Api m 1	Phospholipase A2
248		Api m 10	Icarapin Variant 2

Wasp Venom

Sl. No.	Allergen	Component	Marker
249	Hornet	Dol spp.	
250	Paper wasp venom	Pol d	
251		Pol d 5	Antigen 5
252	Wasp venom	Ves v	
253		Ves v 1	Phospholipase A1
254		Ves v 5	Antigen 5

Cockroach

Sl. No.	Allergen	Component	Marker
255	German Cockroach	Bla g 1	Cockroach Group 1
256		Bla g 2	Aspartyl protease
257		Bla g 4	Lipocalin
258		Bla g 5	Glutathione -S-transferase
259		Bla g 9	Arginine kinase
260	American Cockroach	Per a	
261		Per a 7	Tropomyosin

ANIMAL ORIGIN

Pet

Sl. No.	Allergen	Component	Marker
262	Dog	Can f, Fd1	Uteroglobin
263	Male dog urine (incl. Can f 5)	Can f male urine	α-Lactalbumin
264	Dog	Can f 1	Lipocalin
265		Can f 2	Lipocalin
266		Can f 3	Serum Albumin

267		Can f 4	Lipocalin
268		Can f 6	Lipocalin
269	Guinea pig	Cav p 1	Lipocalin
270	Cat	Fel d 1	Uteroglobin
271		Fel d 2	Serum Albumin
272		Fel d 4	Lipocalin
273		Fel d 7	Lipocalin
274	House mouse	Mus m 1	Lipocalin
275	Rabbit, epithelial	Ory c 1	Lipocalin
276		Ory c 2	Lipocalin
277		Ory c 3	Uteroglobin
278	Dungarian hamster	Phod s 1	Lipocalin
279	Rat	Rat n	

Farm Animals

Sl. No.	Allergen	Component	Marker
280	Cattle	Bos d 2	Lipocalin
281	Goat, epithelial	Cap h, epithelia	
282	Horse, epithelial	Equ c 1	Lipocalin
283		Equ c 3	Serum Albumin
284		Equ c 4	Latherin
285	Sheep, epithelial	Ovi a epithelia	
286	Pig	Sus d, epithelia	

OTHERS

Latex

Sl. No.	Allergen	Component	Marker
287	Latex	Hev b 1	7/8S Globulin
288		Hev b 3	Small rubber particle protein
289		Hev b 5	unknown
290		Hev b 6.02	Pro-Hevein
291		Hev b 8	Profilin
292		Hev b 11	Class 1 Chitinase

Ficus

Sl. No.	Allergen	Component	Marker
293	Weeping fig	Fic b	

CCD

Sl. No.	Allergen	Component	Marker
294	Hom s Lactoferrin	Hom s LF	CCD

Parasite

Sl. No.	Allergen	Component	Marker
295	Pigeon tick	Arg r 1	Lipocalin

Total IgE:

Normal Total-IgE

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

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.

ALEX² – 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

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