

Molecular Weights of Characterized Allergens



Allergen Category	Code	Common Name	Latin Nomenclature / Description	Allergen	Apparent MW (kDa)
Weed					
Weed	W1	Common Ragweed	<i>Ambrosia artemisiifolia</i>	Amb a 1	43
				Amb a 2	44
				Amb a 3	11
				Amb a 5	5
				Amb a 6	13
				Amb a 7	12
				Amb a 8	14
				Amb a 9	10
				W3	Giant Ragweed
Weed	W6	Mugwort	<i>Artemisia vulgaris</i>	Art v 1	28
				Art v 2	35
				Art v 3	12
				Art v 4	14
				Art v 5	10
				Art v 6	44
W9	English Plantain	<i>Plantago lanceolata</i>	Pla l 1	15	
W11	Russian Thistle	<i>Salsola kali</i>	Sal k 1	43	
Grass					
G1	Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	Ant o 1	34	
Grass	G2	Bermuda Grass	<i>Cynodon dactylon</i>	Cyn d 1	27
				Cyn d 7	9
				Cyn d 12	14
				Cyn d 15	9
				Cyn d 23	9
				Cyn d 24	21
				G3	Orchard Grass
Grass	G5	Perennial Rye Grass	<i>Lolium perenne</i>	Dac g 2	11
				Dac g 3	11
				Dac g 4	6
				Dac g 5	31
				Lol p 1	28
Grass	G6	Timothy Grass	<i>Phleum pratense</i>	Lol p 2	11
				Lol p 3	11
				Lol p 5	33
				Lol p 11	16
				Phl p 1	28
				Phl p 2	13
				Phl p 5	32
Grass	G8	June Grass	<i>Poa pratensis</i>	Phl p 6	14
				Phl p 7	9
				Phl p 11	14
				Phl p 13	45
				Poa p 1	33
				Poa p 5	30–38

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Tree					
	T2	Alder	<i>Alnus glutinosa</i>	Aln g 1 Aln g 4	17 9
	T3	Birch	<i>Betula verrucosa</i>	Bet v 1 Bet v 2 Bet v 3 Bet v 4 Bet v 6 Bet v 7	17 14 23 9 35 18
	T4	Hazelnut	<i>Corylus americana</i>	Cor a 1 Cor a 2 Cor a 8 Cor a 9 Cor a 10 Cor a 11	17 14 13 59 77 51
	T6	Mountain Cedar	<i>Juniperus sabinoides</i>	Jun s 1	50
	T7	Oak	<i>Quercus alba</i>	Que a 1	17
	T9	Olive	<i>Olea europea</i>	Ole e 1 Ole e 2 Ole e 3 Ole e 4 Ole e 5 Ole e 6 Ole e 8 Ole e 9 Ole e 10	16 14 9 32 16 6 19 53 14
	T17	Japanese Cedar	<i>Cryptomeria japonica</i>	Cry j 1 Cry j 2	41 57
	T23	Italian Cypress	<i>Cupressus sempervirens</i>	Cup s 1 Cup s 3w	43 34
	T80	Japanese Cypress	<i>Chamaecyparis obtusa</i>	Cha o 1	40
Mite					
	D1		<i>Dermatophagoides pteronyssinus</i>	Der p 1 Der p 2 Der p 3 Der p 4 Der p 5 Der p 6 Der p 7 Der p 8 Der p 9 Der p 10 Der p 11	25 16 28 60 16 25 24 26 26 33 102
	D2		<i>Dermatophagoides farinae</i>	Der f 1 Der f 2 Der f 3 Der f 6 Der f 7 Der f 11 Der f 11 Der f 14 Der f 15 Der f 16 Der f 17 Der f 18w	36 16 28 30 24 33 98 40 64 55 53 60

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	D3		<i>Dermatophagoides microceras</i>	Der m 1	25
	D70		<i>Acarus siro</i>	Aca s 13	14
	D71		<i>Lepidoglyphus destructor</i>	Lep d 1 Lep d 5 Lep d 7 Lep d 10 Lep d 13	15 13 24 33 15
	D72		<i>Tyrophagus putrescentiae</i>	Tyr p 2 Tyr p 13	15 15
Animal					
	E1	Cat Dander/Epithelium	<i>Felis domesticus</i>	Fel d 1 Fel d 2 Fel d 3 Fel d 4	10 69 11 10
	E2	Dog Epithelium	<i>Canis familiaris</i>	Can f 1 Can f 2 Can f 3 Can f 4	19 20 69 18
	E5	Dog Dander	<i>Canis familiaris</i>	Can f 1 Can f 2 Can f 3 Can f 4	19 20 69 18
	E3	Horse Dander	<i>Equus caballus</i>	Equ c 1 Equ c 2 Equ c 3 Equ c 4 Equ c 5	22 19 67 17 17
	E4	Cow Dander	<i>Bos taurus (domesticus)</i>	Bos d 2 Bos d 3 Bos d 4 Bos d 5 Bos d 6 Bos d 7 Bos d 8	20 12 16 20 69 160 25
	E6	Guinea Pig Epithelium	<i>Cavia porcellus</i>	Cav p 1 Cav p 2	20 17
Food					
	F1	Egg White	Ovalbumin Conalbumin Ovomucoid Lysozyme		45 76 28 14
	F2	Milk	alpha-Lactalbumin beta-Lactoglobulin Serum Albumin Immunoglobulin Caseins	Bos d 4 Bos d 5 Bos d 6 Bos d 7 Bos d 8	14 18 67 160 20–30
	F3	Codfish Codfish	<i>Gadus morhua</i> <i>Gadus callarias</i>	Gad m 1 Gad c 1	13 12
	F4	Wheat	<i>Triticum aestivum</i>	Tri a gliadin Tri a glutenin Tri a profilin Tri a ps93 Tri a TAI Tri a TPIS	33 37 15 31 17 29

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				Tri a 3	13
				Tri a 25	13
				Tri a 18	24
				Tri a 19	33
F6	Barley	<i>Hordeum vulgare</i>		Hor v 1	17
				Hor v 15	15
				Hor v 21	33
F10	Sesame Seed	<i>Sesamum indicum</i>		Ses i 1	18
				Ses i 2	17
				Ses i 3	67
				Ses i 4	19
				Ses i 5	17
				Ses i 6	52
F13	Peanut	<i>Arachis hypogaea</i>		Ara h 1	70
				Ara h 2	18
				Ara h 3	58
				Ara h 4	61
				Ara h 5	14
				Ara h 6	15
				Ara h 7	18
				Ara h 8	18
F14	Soybean	<i>Glycine max</i>		Gly m 1	9
				Gly m 2	32
				Gly m 3	14
				Gly m 4	17
				Gly m Bd28K	53
				Gly m conglycinin	70
				Gly m glycinin G1	56
				Gly m glycinin G2	54
				Gly m lectin	31
				Gly m TI	18
F17	Hazelnut	<i>Corylus avellana</i>		Cor a 1	17
				Cor a 2	14
				Cor a 8	12
				Cor a 9	59
				Cor a 10	74
				Cor a 11	51
F24	Black Tiger Shrimp	<i>Penaeus monodon</i>		Pen m 1	38
				Pen m 2	41
F25	Tomato	<i>Lycopersicon esculentum</i>		Lyc e 1	14
				Lyc e 2	70
				Lyc e 3	11
				Lyc e LAT52	19
				Lyc e NP24	27
F31	Carrot	<i>Daucus carota</i>		Dau c 1	16
				Dau c 4	14
F49	Apple	<i>Malus sylvestris (domestica)</i>		Mal d 1	18
				Mal d 2	28
				Mal d 3	11
				Mal d 4	14
F83	Chicken Meat	<i>Gallus domestica</i>		Gal d 1	23
				Gal d 2	43
				Gal d 3	78
				Gal d 4	16
				Gal d 5	71
				Hor v 21	33

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	F85	Celery	<i>Apium graveolens</i>	Api g 1 Api g 3 Api g 4 Api g 5	16 28 14 55–58
	F94	Pear	<i>Pyrus communis</i>	Pyr c 1 Pyr c 3 Pyr c 4 Pyr c 5	18 11 14 34
	F96	Avocado	<i>Persea americana</i>	Pers a 1	35
Occupational					
	K82	Latex	<i>Hevea brasiliensis</i>	Hev b 1 Hev b 2 Hev b 3 Hev b 4 Hev b 5 Hev b 6 Hev b 7 Hev b 8 Hev b 9 Hev b 10 Hev b 11 Hev b 12 Hev b 13	15 41 22 100–115 16 22 43 14 48 26 32 12 43
Mold					
	M1		<i>Penicillium notatum</i>	Pen ch 13 Pen ch 18 Pen ch 20	40 52 68
	M2		<i>Cladosporium herbarum</i>	Cla h 2 Cla h 3 Cla h 4 Cla h 5 Cla h 6 Cla h 7 Cla h 8 Cla h 9 Cla h 10 Cla h 12	23 53 70 22 48 22 28 55 53 11
	M3		<i>Aspergillus fumigatus</i>	Asp f 1 Asp f 2 Asp f 3 Asp f 4 Asp f 5 Asp f 6 Asp f 7 Asp f 8 Asp f 9 Asp f 10 Asp f 11 Asp f 12 Asp f 13 Asp f 15 Asp f 16 Asp f 18 Asp f 22w	20 33 18 30 73 23 12 11 35 45 43 50 42 16 49 34 46

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				Asp f 23	45
				Asp f 27	18
				Asp f 28	12
				Asp f 29	12
	M5		<i>Candida albicans</i>	Cand a 1	37
				Cand a 3	27
	M6		<i>Alternaria tenuis (alternata)</i>	Alt a 1	17
				Alt a 2	22
				Alt a 3	14
				Alt a 4	50
				Alt a 5	11
				Alt a 6	47
				Alt a 7	22
				Alt a 8	29
				Alt a 10	54
				Alt a 12	11
Insect					
	I1	Honey Bee Venom	<i>Apis mellifera</i>	Api m 1	17
				Api m 2	45
				Api m 3	49
				Api m 4	3
				Api m 6	8
	I3	Yellow Jacket Venom	<i>Vespula spp.</i>	Ves v 1	37
				Ves v 2	43
				Ves v 5	23
	I6	Cockroach	<i>Blattella germanica</i>	Bla g 1	47
				Bla g 2	39
				Bla g 4	21
				Bla g 5	23

References

1. <http://allallergy.net/databases/index.cfm/AlphCode/H>
2. http://fermi.utmb.edu/cgi-bin/SDAP/sdap_06?dB_Type=0&Let=1
3. <http://www.allergen.org/List.htm>
4. <http://www.allergome.org/>

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