



Allergen Catalog ALEX³

Multiplex Specific IgE Panel



ALEX³ Allergen Catalog

ALEX[®] (Allergy Explorer) enables the simultaneous analysis of allergen extracts and molecular components to precisely characterize the patient's sensitization profile.

The ALEX³ allergens

Click a title to jump directly to the corresponding section.

[Tree Pollens](#)

[Grass Pollens](#)

[Weed Pollens](#)

[Mites](#)

[Molds and Yeasts](#)

[Animals](#)

[Insects and Venoms](#)

[Fruits](#)

[Cereals and Seeds](#)

[Legumes and Nuts](#)

[Vegetables](#)

[Milk and Egg](#)

[Fish and Shellfish](#)

[Meats](#)

[Other](#)

Tree Pollens

Common name	Scientific name	Component	Protein family	Code
Acacia	<i>Acacia mimosa</i>	Extract		t19
Alder	<i>Alnus glutinosa</i>	Aln g 1	PR-10	t100
		Aln g 4	Polcalcin	t101
Ash	<i>Fraxinus excelsior</i>	Fra e 1	Ole e 1 Family	t103
Birch	<i>Betula verrucosa</i>	Bet v 1	PR-10	t215
		Bet v 6	Isoflavone Reductase	t225
		Bet v 7	Cyclophilin	t233
Arizona cypress	<i>Cupressus arizonica</i>	Cup a 1	Pectate Lyase	t226
Cypress	<i>Cupressus sempervirens</i>	Extract		t23
Ashe juniper (mountain cedar)	<i>Juniperus ashei</i>	Extract		t63
Oak	<i>Quercus alba</i>	Que a 1	PR-10	t231
Olive	<i>Olea europaea</i>	Ole e 1	Ole e 1 Family	t224
		Ole e 7	nsLTP	t227
		Ole e 9	β-1,3-Glucanase	t240
Paper mulberry	<i>Broussonetia papyrifera</i>	Extract		t305
London plane tree	<i>Platanus acerifolia</i>	Pla a 1	Plant Invertase Inhibitor	t241
		Pla a 2	Polygalacturonase	t301
		Pla a 3	nsLTP	t302
Japanese cedar	<i>Cryptomeria japonica</i>	Cry j 1	Pectate Lyase	t303
Tree of heaven	<i>Ailanthus altissima</i>	Extract		t304
Walnut	<i>Juglans regia</i>	Extract		t10

Grass Pollens

Common name	Scientific name	Component	Protein family	Code
Bahia grass	<i>Paspalum notatum</i>	Extract		g17
Bermuda grass	<i>Cynodon dactylon</i>	Cyn d 1	β-Expansin	g216
Common reed	<i>Phragmites communis</i>	Extract		g7
Corn pollen	<i>Zea mays</i>	Zea m 1	β-Expansin	g217
Rye pollen	<i>Secale cereale</i>	Extract		g12
Timothy grass	<i>Phleum pratense</i>	Phl p 1	β-Expansin	g205
		Phl p 2	Expansin	g206
		Phl p 5.0101	Grass Group 5/6	g215
		Phl p 6	Grass Group 5/6	g209
		Phl p 7	Polcalcin	g210
		Phl p 12	Profilin	g212

Weed Pollens

Common name	Scientific name	Component	Protein family	Code
Pigweed	<i>Amaranthus retroflexus</i>	Extract		w14
Hemp (CBD)	<i>Cannabis sativa</i>	Extract		w303
Hemp	<i>Cannabis sativa</i>	Can s 3	nsLTP	w302
Lamb's quarters (white goosefoot)	<i>Chenopodium album</i>	Extract		w10
		Che a 1	Ole e 1 Family	w100
Mugwort	<i>Artemisia vulgaris</i>	Extract		w6
		Art v 1	Plant Defensin	w231
		Art v 3	nsLTP	w233
Ragweed	<i>Ambrosia artemisiifolia</i>	Amb a		w1
		Amb a 1	Pectate Lyase	w230
		Amb a 4	Plant Defensin	w300
English plantain	<i>Plantago lanceolata</i>	Pla l 1	Ole e 1 Family	w234
Russian thistle (saltwort)	<i>Salsola kali</i>	Extract		w11
		Sal k 1	Pectin Methylesterase	w232
		Sal k 5	Ole e 1 Family	w237
Pellitory-of-the-wall	<i>Parietaria judaica</i>	Extract		w21
		Par j 2	nsLTP	w211

Mites

Common name	Scientific name	Component	Protein family	Code
House dust mite	<i>Dermatophagoides farinae</i>	Der f 1	Cysteine Protease	d100
		Der f 2	NPC2 Family	d101
		Der f 15	Chitinase	d106
		Der f 18	Chitinase-like Protein	d107
House dust mite	<i>Dermatophagoides pteronyssinus</i>	Der p 1	Cysteine Protease	d202
		Der p 2	NPC2 Family	d203
		Der p 5	Mite Group 5/21	d103
		Der p 7	Mite Group 7	d104
		Der p 10	Tropomyosin	d205
		Der p 20	Arginine Kinase	d303
		Der p 21	Mite Group 5/21	d304
		Der p 23	Peritrophin-like Protein Domain	d209
	<i>Blomia tropicalis</i>	Blo t 2	NPC2 Family	d307
		Blo t 5	Mite Group 5/21	d300
		Blo t 10	Tropomyosin	d301
		Blo t 21	Mite Group 5/21	d302
	<i>Acarus siro</i>	Extract		d70
	<i>Glycyphagus domesticus</i>	Gly d 2	NPC2 Family	d105
	<i>Lepidoglyphus destructor</i>	Lep d 2	NPC2 Family	d305
	<i>Tyrophagus putrescentiae</i>	Extract		d72
		Tyr p 2	NPC2 Family	d306
		Tyr p 10	Tropomyosin	d308

Molds and Yeasts

Common name	Scientific name	Component	Protein family	Code
	<i>Alternaria alternata</i>	Alt a 1		m229
		Alt a 6	Enolase	m230
	<i>Aspergillus fumigatus</i>	Asp f 1	Mitogillin	m218
		Asp f 3	Peroxisomal Protein	m220
		Asp f 4		m221
		Asp f 6	Superoxide Dismutase	m222
		Asp f 8	Ribosomal Protein 2	m225
	<i>Cladosporium herbarum</i>	Extract		m2
		Cla h 8	Mannitol Dehydrogenase	m100
	<i>Malassezia sympodialis</i>	Mala s 5		y2
		Mala s 6	Cyclophilin	y3
		Mala s 11	Superoxide Dismutase	y5
		Mala s 13	Thioredoxin	y6
	<i>Penicillium chrysogenum</i>	Extract		m1

Animals

Common name	Scientific name	Component	Protein family	Code
Cat	<i>Felis domesticus</i>	Fel d 1	Uteroglobin	e94
		Fel d 2	Serum Albumin	e220
		Fel d 4	Lipocalin	e228
		Fel d 7	Lipocalin	e300
Cow	<i>Bos domesticus</i>	Bos d 2	Lipocalin	e100
Russian hamster	<i>Phodopus sungorus</i>	Phod s 1	Lipocalin	e301
Dog	<i>Canis familiaris</i>	Can f 1	Lipocalin	e101
		Can f 2	Lipocalin	e102
		Can f 3	Serum Albumin	e221
		Can f 4	Lipocalin	e302
		Can f 6	Lipocalin	e303
		Can f Fel d 1-like	Uteroglobin	e304
		Male urine extract - includes Can f 5		e308
Goat	<i>Capra hircus</i>	Extract (epithelium)		e80
Golden hamster	<i>Mesocricetus auratus</i>	Mes a 1	Lipocalin	e800
Guinea pig	<i>Cavia porcellus</i>	Cav p 1	Lipocalin	e305
Horse	<i>Equus caballus</i>	Equ c 1	Lipocalin	e227
		Equ c 3	Serum Albumin	e306
		Equ c 4	Latherin	e307
Mouse	<i>Mus musculus</i>	Mus m 1	Lipocalin	e103
Pig	<i>Sus domesticus</i>	Extract (epithelium)		e83
Rabbit	<i>Oryctolagus cuniculus</i>	Ory c 1	Lipocalin	e309
		Ory c 2	Lipocalin	e310
		Ory c 3	Uteroglobin	e311
Rat	<i>Rattus norvegicus</i>	Rat n 1	Lipocalin	e312

Insects and Venoms

Common name	Scientific name	Component	Protein family	Code
American cockroach	<i>Periplaneta americana</i>	Extract		i206
		Per a 6	Troponin C	i220
		Per a 7	Tropomyosin	i300
Common wasp (yellowjacket)	<i>Vespula vulgaris</i>	Ves v 1	Phospholipase A1	i211
		Ves v 5	Antigen 5	i209
Fire ant	<i>Solenopsis spp</i>	Extract		i70
German cockroach	<i>Blattella germanica</i>	Bla g 1	Nitrile Specifier	i100
		Bla g 2	Aspartic Protease	i101
		Bla g 4	Calycin	i102
		Bla g 5	Glutathione S-Transferase	i103
		Bla g 9	Arginine Kinase	i301
Honey bee	<i>Apis mellifera</i>	Extract		i1
		Api m 1	Phospholipase A2	i208
		Api m 2	Hyaluronidase	i214
		Api m 10	Icarapin Variant 2	i217
White-faced hornet	<i>Dolichovespula maculata</i>	Dol m 2	Hyaluronidase	i221
		Dol m 5	Antigen 5	i222
Paper wasp	<i>Polistes dominula</i>	Extract		i77
		Pol d 5	Antigen 5	i210

Fruits

Common name	Scientific name	Component	Protein family	Code
Apple	<i>Malus domestica</i>	Mal d 1	PR-10	f434
		Mal d 3	nsLTP	f435
Avocado	<i>Persea americana</i>	Extract		f96
		Pers a 1	Class I Chitinase	f576
Banana	<i>Musa acuminata</i>	Mus a 2	Class I Chitinase	f577
		Mus a 5	β -1,3-Glucanase	f578
Cherry	<i>Prunus avium</i>	Pru av 3	nsLTP	f579
Coconut	<i>Cocos nucifera</i>	Coc n 1	7/8S Globulin	t234
Fig	<i>Ficus carica</i>	Extract		f328
Grape	<i>Vitis vinifera</i>	Vit v 1	nsLTP	f521
Kiwi	<i>Actinidia deliciosa</i>	Act d 1	Cysteine Protease	f500
		Act d 2	TLP	f501
		Act d 5	Kiwellin	f502
		Act d 10	nsLTP	f503
Mango	<i>Mangifera indica</i>	Man i 1	Class IV Chitinase	f580
Melon	<i>Cucumis melo</i>	Cuc m 2	Profilin	f528
Papaya	<i>Carica papaya</i>	Extract		f293
Peach	<i>Prunus persica</i>	Pru p 3	nsLTP	f420
		Pru p 7	Gibberellin-regulated Protein	f801
Pear	<i>Pyrus communis</i>	Extract		f94
Strawberry	<i>Fragaria ananassa</i>	Fra a 3	nsLTP	f44

Cereals and Seeds

Common name	Scientific name	Component	Protein family	Code
Barley	<i>Hordeum vulgare</i>	Extract		f6
Buckwheat	<i>Fagopyrum esculentum</i>	Extract		f11
		Fag e 2	2S Albumin	f508
Corn (kernels)	<i>Zea mays</i>	Extract		f8
		Zea m 14	nsLTP	f523
Rye	<i>Secale cereale</i>	Extract		f5
Lupin (seed)	<i>Lupinus albus</i>	Extract		f335
Millet	<i>Panicum miliaceum</i>	Extract		f55
Oat	<i>Avena sativa</i>	Extract		f7
Quinoa	<i>Chenopodium quinoa</i>	Extract		f347
Spelt	<i>Triticum spelta</i>	Extract		f124
Wheat	<i>Triticum aestivum</i>	Tri a 14	nsLTP	f433
		Tri a 19	Ω-5-Gliadin	f416
		Tri a 36	LMW Glutenin	f556
		Tri a 37	α-Purothionin	f557
		Tri a aA_TI	α-Amylase/Trypsin Inhibitor	f544
Mustard	<i>Brassica / Sinapis alba</i>	Extract		f89
		Sin a 1	2S Albumin	f519
Poppy seed	<i>Papaver somniferum</i>	Extract		f224
		Pap s 1.0101 (27-846)	α-Hairpinin	f516
Pumpkin seed	<i>Cucurbita pepo</i>	Extract		f226
Sesame	<i>Sesamum indicum</i>	Extract		f10
		Ses i 1	2S Albumin	f518
Sunflower seed	<i>Helianthus annuus</i>	Extract		k84

Legumes and Nuts

Common name	Scientific name	Component	Protein family	Code
Chickpea	<i>Cicer arietinum</i>	Extract		f309
Lentil	<i>Lens culinaris</i>	Len c 1	7/8S Globulin	f563
		Len c 3	nsLTP	f564
Pea	<i>Pisum sativum</i>	Pis s 1	7/8S Globulin	f559
		Pis s 2	7/8S Globulin	f560
		Pis s 3	nsLTP	f561
Peanut	<i>Arachis hypogaea</i>	Ara h 1	7/8S Globulin	f422
		Ara h 2	2S Albumin	f423
		Ara h 3	11S Globulin	f424
		Ara h 6	2S Albumin	f447
		Ara h 8	PR-10	f352
		Ara h 9	nsLTP	f427
		Ara h 15	Oleosin	f803
		Ara h 18	Cyclophilin	f562
Soy	<i>Glycine max</i>	Gly m 4	PR-10	f353
		Gly m 5	7/8S Globulin	f431
		Gly m 6	11S Globulin	f432
		Gly m 8	2S Albumin	f511
Almond	<i>Prunus dulcis</i>	Extract		f20
		Pru du 6	11S Globulin	f565
Brazil nut	<i>Bertholletia excelsa</i>	Extract		f18
		Ber e 1	2S Albumin	f354
Cashew	<i>Anacardium occidentale</i>	Ana o 1	7/8S Globulin	f558
		Ana o 2	11S Globulin	f550
		Ana o 3	2S Albumin	f443
Hazelnut	<i>Corylus avellana</i>	Cor a 1.0401	PR-10	f428
		Cor a 8	nsLTP	f425
		Cor a 9	11S Globulin	f440
		Cor a 11	7/8S Globulin	f506
		Cor a 14	2S Albumin	f439
Macadamia nut	<i>Macadamia integrifolia</i>	Extract		f345
		Mac i 1.0101 (28-76)	α -Hairpinin	f513
Pecan	<i>Carya illinoensis</i>	Extract		f201
		Car i 1	2S Albumin	f566
		Car i 2 (256-386)	7/8S Globulin	f567
		Car i 4	11S Globulin	f568
Pine nut	<i>Pinus pinea</i>	Extract		f569
		Pin p 1	2S Albumin	f570

Common name	Scientific name	Component	Protein family	Code
Pistachio	<i>Pistacia vera</i>	Pis v 1	2S Albumin	f531
		Pis v 2	11S Globulin	f532
		Pis v 3	7/8S Globulin	f533
		Hel a 3	nsLTP	f555
Walnut	<i>Juglans regia</i>	Jug r 1	2S Albumin	f441
		Jug r 2	7/8S Globulin	f512
		Jug r 3	nsLTP	f539
		Jug r 4	11S Globulin	f540
		Jug r 6	7/8S Globulin	f541

Vegetables

Common name	Scientific name	Component	Protein family	Code
Celery	<i>Apium graveolens</i>	Api g 1	PR-10	f417
		Api g 2	nsLTP	f504
		Api g 6	nsLTP	f505
		Api g 7	Plant Defensin	f554
Garlic	<i>Allium sativum</i>	Extract		f47
Onion	<i>Allium cepa</i>	Extract		f48
Potato	<i>Solanum tuberosum</i>	Extract		f35
Tomato	<i>Solanum lycopersicum</i>	Extract		f25
		Sola l 6	nsLTP	f520

Milk and Egg

Common name	Scientific name	Component	Protein family	Code
Camel milk	<i>Camelus dromedarius</i>	Extract		f581
Cow's milk	<i>Bos domesticus</i>	Bos d_milk		f2
		Bos d 4	α -Lactalbumin	f76
		Bos d 5	β -Lactoglobulin	f77
		Bos d 8	Casein	f78
		Bos d 9	α -S1 Casein	f700
		Bos d 10	α -S2 Casein	f701
		Bos d 11	β -Casein	f702
		Bos d 12	κ -Casein	f703
Goat's milk	<i>Capra hircus</i>	Extract		f300
Mare's milk	<i>Equus caballus</i>	Extract		f286
Sheep's milk	<i>Ovis aries</i>	Extract		f325
Egg white (hen)	<i>Gallus domesticus</i>	Extract		f1
		Gal d 1	Ovomucoid	f233
		Gal d 2	Ovalbumin	f232
		Gal d 3	Ovotransferrin	f323
		Gal d 4	Lysozyme C	k208
Egg yolk (hen)	<i>Gallus domesticus</i>	Extract		f75
		Gal d 5	Serum Albumin	f510

Fish and Shellfish

Common name	Scientific name	Component	Protein family	Code
	<i>Anisakis simplex</i>	Ani s 1	Kunitz Serine Protease Inhibitor	p10
		Ani s 3	Tropomyosin	p11
Cod	<i>Gadus morhua</i>	Gad m 1	β-Parvalbumin	f509
Herring	<i>Clupea harengus</i>	Extract		f205
		Clu h 1	β-Parvalbumin	f525
Mackerel	<i>Scomber scombrus</i>	Extract		f206
		Sco s 1	β-Parvalbumin	f551
Giant tiger prawn	<i>Penaeus monodon</i>	Pen m 1	Tropomyosin	f517
		Pen m 2	Arginine Kinase	f545
		Pen m 3	Myosin Light Chain	f552
		Pen m 4	Sarcoplasmic Calcium-binding Protein	f524
European brown shrimp	<i>Crangon crangon</i>	Cra c 6	Troponin C	f529
Carp	<i>Cyprinus carpio</i>	Cyp c 1	β-Parvalbumin	f355
		Cyp c 2	Enolase	f573
Crab	<i>Chionoecetes spp</i>	Extract		f23
Giant freshwater prawn	<i>Macrobrachium rosenbergii</i>	Mac r 1	Tropomyosin	f571
		Mac r 2	Arginine Kinase	f572
Lobster	<i>Homarus gammarus</i>	Extract		f80
Shrimp	<i>Pandalus borealis</i>	Extract		f515
Salmon	<i>Salmo salar</i>	Extract		f41
		Sal s 1	β-Parvalbumin	f534
		Sal s 6	Collagen	f574
Shrimp mix	<i>Litopenaeus setiferus</i> , <i>Farfantepenaeus aztecus</i> , <i>Farfantepenaeus duorarum</i>	Extract		f24
Squid	<i>Loligo spp</i>	Extract		f258
Swordfish	<i>Xiphias gladius</i>	Xip g 1	β-Parvalbumin	f537
Thornback ray	<i>Raja clavata</i>	Extract		f535
		Raj c Parvalbumin	α-Parvalbumin	f536
Tuna	<i>Thunnus albacares</i>	Thu a 1	β-Parvalbumin	f538
Clam	<i>Ruditapes spp</i>	Extract		f207
Whiteleg shrimp	<i>Litopenaeus vannamei</i>	Lit v 7	Hemocyanin	f575

Meats

Common name	Scientific name	Component	Protein family	Code
Beef	<i>Bos domesticus</i>	Extract		f27
		Bos d 6	Serum Albumin	e204
Chicken	<i>Gallus domesticus</i>	Extract		f83
		Gal d 7	Myosin Light Chain	f802
Horse	<i>Equus caballus</i>	Extract		f321
House cricket	<i>Acheta domesticus</i>	Extract		f526
Mealworm	<i>Tenebrio molitor</i>	Extract		f527
Migratory locust	<i>Locusta migratoria</i>	Extract		f553
Pork	<i>Sus domesticus</i>	Sus d 1	Serum Albumin	f530
Rabbit	<i>Oryctolagus spp</i>	Extract		f213
Red meat	<i>Galactose-α-1,3-galactose</i>	α -Gal		o215
Lamb	<i>Ovis aries</i>	Extract		f88
Turkey	<i>Meleagris gallopavo</i>	Extract		f284

Other

Common name	Scientific name	Component	Protein family	Code
Human lactoferrin		Hom s LF	CCD (MUXF3)	o214
Latex	<i>Hevea brasiliensis</i>	Hev b 1	Rubber Elongation Factor	k215
		Hev b 3	Small Rubber Particle Protein	k217
		Hev b 5	Unknown	k218
		Hev b 6.02	Pro-Hevein	k220
		Hev b 11	Class I Chitinase	k224
Pigeon tick	<i>Argas reflexus</i>	Arg r 1	Lipocalin	o100
Weeping fig (Ficus)	<i>Ficus benjamina</i>	Extract		k81