

## ALEX Allergen List

| <b>Allergen</b>                   | <b>Allergen Name</b>            | <b>Latin/Scientific Name</b> | <b>Biochemical Designation</b>  |
|-----------------------------------|---------------------------------|------------------------------|---------------------------------|
| <b>Animal Epithelia Allergens</b> |                                 |                              |                                 |
| Fel d 1                           | Cat                             | <i>Felix domesticus</i>      | Uteroglobulin                   |
| Fel d 2                           | Cat                             | <i>Felix domesticus</i>      | Serum Albumin                   |
| Fel d 4                           | Cat                             | <i>Felix domesticus</i>      | Lipocalin                       |
| Fel d 7                           | Cat                             | <i>Felix domesticus</i>      | Lipocalin                       |
| Bos d 2                           | Cattle                          | <i>Bos domesticus</i>        | Lipocalin                       |
| Phod s 1                          | Djungarian hamster              | <i>Phodopus sungorus</i>     | Lipocalin                       |
| Can f 1                           | Dog                             | <i>Canis familiaris</i>      | Lipocalin                       |
| Can f 2                           | Dog                             | <i>Canis familiaris</i>      | Lipocalin                       |
| Can f 3                           | Dog                             | <i>Canis familiaris</i>      | Serum Albumin                   |
| Can f 4                           | Dog                             | <i>Canis familiaris</i>      | Lipocalin                       |
| Can f 6                           | Dog                             | <i>Canis familiaris</i>      | Lipocalin                       |
| Can f Fel d 1 like                | Dog                             | <i>Canis familiaris</i>      | Fel d 1 like                    |
| Native allergen                   | Goat                            | <i>Capra hircus</i>          |                                 |
| Mes a 1                           | Golden hamster                  | <i>Mesocricetus auratus</i>  | Lipocalin                       |
| Cav p 1                           | Guinea Pig                      | <i>Cavia porcellus</i>       | Lipocalin                       |
| Equ c 1                           | Horse                           | <i>Equus caballus</i>        | Lipocalin                       |
| Equ c 3                           | Horse                           | <i>Equus caballus</i>        | Serum albumin                   |
| Equ c 4                           | Horse                           | <i>Equus caballus</i>        | Latherin                        |
| Native allergen                   | Male Dog urine (incl. Can f 5)  | <i>Canis familiaris</i>      |                                 |
| Mus m 1                           | Mouse                           | <i>Mus musculus</i>          | Lipocalin                       |
| Native allergen                   | Pig                             | <i>Sus domesticus</i>        |                                 |
| Sus d 1                           | Pig                             | <i>Sus domesticus</i>        | Serum albumin                   |
| Native allergen                   | Rabbit                          | <i>Oryctolagus spp.</i>      |                                 |
| Ory c 1                           | Rabbit                          | <i>Oryctolagus cuniculus</i> | Lipocalin                       |
| Ory c 2                           | Rabbit                          | <i>Oryctolagus cuniculus</i> | Lipocalin                       |
| Ory c 3                           | Rabbit                          | <i>Oryctolagus cuniculus</i> | Secretoglobulin                 |
| Native allergen                   | Rat                             | <i>Rattus norvegicus</i>     |                                 |
| Native allergen                   | Sheep                           | <i>Ovis aries</i>            |                                 |
| <b>Food Allergens</b>             |                                 |                              |                                 |
| Native allergen                   | Almond                          | <i>Prunus dulcis</i>         |                                 |
| Ani s 1                           | Anisakis Simplex (Herring Worm) | <i>Anisakis spp.</i>         | Kunitz Serin Protease Inhibitor |
| Ani s 3                           | Anisakis Simplex (Herring Worm) | <i>Anisakis spp.</i>         | Tropomyosin                     |
| Native allergen                   | Anise                           | <i>Pimpinella anisum</i>     |                                 |
| Mal d 1                           | Apple                           | <i>Malus domestica</i>       | PR-10                           |
| Mal d 2                           | Apple                           | <i>Malus domestica</i>       | LTP                             |

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|-----------------|--------------------|---------------------------------|--------------------------------------|
| Mal d 3         | Apple              | <i>Malus domestica</i>          | nsLTP                                |
| Native allergen | Atlantic Cod       | <i>Gadus morhua</i>             |                                      |
| Gad m 2&3       | Atlantic Cod       | <i>Gadus morhua</i>             | $\beta$ -Enolase&Aldolase            |
| Gad m 1         | Atlantic Cod       | <i>Gadus morhua</i>             | $\beta$ -Parvalbumin                 |
| Native allergen | Atlantic Herring   | <i>Clupea harengus</i>          |                                      |
| Clu h 1         | Atlantic Herring   | <i>Clupea harengus</i>          | $\beta$ -Parvalbumin                 |
| Native allergen | Atlantic Mackerel  | <i>Scomber scombrus</i>         |                                      |
| Sco s 1         | Atlantic Mackerel  | <i>Scomber scombrus</i>         | $\beta$ -Parvalbumin                 |
| Native allergen | Avocado            | <i>Persea americana</i>         |                                      |
| Native allergen | Baker's Yeast      | <i>Saccharomyces cerevisiae</i> |                                      |
| Native allergen | Banana             | <i>Musa acuminata</i>           |                                      |
| Native allergen | Barley             | <i>Hordeum vulgare</i>          |                                      |
| Bos d 6         | Beef               | <i>Bos taurus</i>               | Serum Albumin                        |
| Native allergen | Beef               | <i>Bos taurus</i>               |                                      |
| Pen a/m 1       | Black Tiger Shrimp | <i>Penaeus monodon</i>          | Tropomyosin                          |
| Pen m 4         | Black Tiger Shrimp | <i>Penaeus monodon</i>          | Sacroplasmic Calcium Binding Protein |
| Pen m 2         | Black Tiger Shrimp | <i>Penaeus monodon</i>          | Arginine Kinase                      |
| Pen m 3         | Black Tiger Shrimp | <i>Penaeus monodon</i>          | Myosin light chain                   |
| Native allergen | Blueberry          | <i>Vaccinium myrtillus</i>      |                                      |
| Ber e 1         | Brazil Nut         | <i>Bertholletia excelsa</i>     | 2S Albumin                           |
| Native allergen | Brazil Nut         | <i>Bertholletia excelsa</i>     |                                      |
| Cra c 6         | Brown Shrimp       | <i>Crangon crangon</i>          | Troponin C                           |
| Fag e 2         | Buckwheat          | <i>Fagopyrum esculentum</i>     | 2S Albumin                           |
| Native allergen | Buckwheat          | <i>Fagopyrum esculentum</i>     |                                      |
| Native allergen | Camel's Milk       | <i>Camelus dromedarius</i>      |                                      |
| Native allergen | Caraway            | <i>Carum carvi</i>              |                                      |
| Cyp c 1         | Carp               | <i>Cyprinus carpio</i>          | $\beta$ -Parvalbumin                 |
| Dau c 1         | Carrot             | <i>Daucus carota</i>            | PR-10                                |
| Native allergen | Carrot             | <i>Daucus carota</i>            |                                      |
| Native allergen | Cashew             | <i>Anacardium occidentale</i>   |                                      |
| Ana o 3         | Cashew             | <i>Anacardium occidentale</i>   | 2S Albumin                           |
| Ana o 2         | Cashew             | <i>Anacardium occidentale</i>   | 11S Globulin                         |
| Api g 1         | Celery             | <i>Apium graveolens</i>         | PR-10                                |
| Api g 2         | Celery             | <i>Apium graveolens</i>         | nsLTP                                |
| Api g 6         | Celery             | <i>Apium graveolens</i>         | nsLTP                                |
| Native allergen | Cherry             | <i>Prunus spp.</i>              |                                      |
| Native allergen | Chicken            | <i>Gallus domesticus</i>        |                                      |
| Native allergen | Chickpea           | <i>Cicer arietinus</i>          |                                      |
| Native allergen | Common Mussel      | <i>Mytilus edulis</i>           |                                      |
| Native allergen | Corn, Cereal       | <i>Zea mays</i>                 |                                      |
| Zea m 14        | Corn, Cereal       | <i>Zea mays</i>                 | nsLTP                                |
| Bos d 4         | Cow's Milk         | <i>Bos taurus</i>               | $\alpha$ -Lactalbumin                |
| Bos d 5         | Cow's Milk         | <i>Bos taurus</i>               | $\beta$ -Lactoglobulin               |

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|------------------|------------------|----------------------------------|-------------------|
| Bos d 8          | Cow's Milk       | <i>Bos taurus</i>                | Casein            |
| Native allergen  | Cow's Milk       | <i>Bos taurus</i>                |                   |
| Native allergen  | Crab             | <i>Chionoecetes spp.</i>         |                   |
| Native allergen  | Cultivated Rye   | <i>Secale cereale</i>            |                   |
| Native allergen  | Fenugreek seeds  | <i>Trigonella foenum-graecum</i> |                   |
| Native allergen  | Fig              | <i>Ficus carica</i>              |                   |
| Native allergen  | Garlic           | <i>Allium sativum</i>            |                   |
| Native allergen  | Goat's Milk      | <i>Capra hircus</i>              |                   |
| Vit v 1          | Grape            | <i>Vitis vinifera</i>            | nsLTP             |
| Native allergen  | Green bean       | <i>Phaseolus vulgaris</i>        |                   |
| Cor a 1.0401     | Hazel Nut Food   | <i>Corylus avellana</i>          | PR-10             |
| Cor a 11         | Hazel Nut Food   | <i>Corylus avellana</i>          | 7/8S Globulin     |
| Cor a 14         | Hazel Nut Food   | <i>Corylus avellana</i>          | 2S Albumin        |
| Cor a 8          | Hazel Nut Food   | <i>Corylus avellana</i>          | nsLTP             |
| Cor a 9          | Hazel Nut Food   | <i>Corylus avellana</i>          | 11S Globulin      |
| Cor a 12         | Hazel Nut Food   | <i>Corylus avellana</i>          | Olesin            |
| Gal d 1          | Hen's Egg White  | <i>Gallus gallus domesticus</i>  | Ovomucoid         |
| Gal d 2          | Hen's Egg White  | <i>Gallus gallus domesticus</i>  | Ovalbumin         |
| Gal d 3          | Hen's Egg White  | <i>Gallus gallus domesticus</i>  | Ovotransferrin    |
| Gal d 4          | Hen's Egg White  | <i>Gallus gallus domesticus</i>  | Lysozym C         |
| Native allergen  | Hen's Egg White  | <i>Gallus gallus domesticus</i>  |                   |
| Gal d 5          | Hen's Egg Yolk   | <i>Gallus gallus domesticus</i>  | Serum Albumin     |
| Native allergen  | Hen's Egg Yolk   | <i>Gallus gallus domesticus</i>  |                   |
| Native allergen  | Horse            | <i>Equus caballus</i>            |                   |
| Native allergen  | House cricket    | <i>Acheta domesticus</i>         |                   |
| Act d 1          | Kiwi Fruit       | <i>Actinidia deliciosa</i>       | Cysteine Protease |
| Act d 10         | Kiwi Fruit       | <i>Actinidia deliciosa</i>       | nsLTP             |
| Act d 2          | Kiwi Fruit       | <i>Actinidia deliciosa</i>       | LTP               |
| Act d 5          | Kiwi Fruit       | <i>Actinidia deliciosa</i>       | Kiwellin          |
| Native allergen  | Lamb             | <i>Ovis aries</i>                |                   |
| Native allergen  | Lentil           | <i>Lens culinaris</i>            |                   |
| Native allergen  | Lobster          | <i>Hoamrus gammarus</i>          |                   |
| Native allergen  | Lupine Seed      | <i>Lupinus albus</i>             |                   |
| Mac i 2S Albumin | Macadamia        | <i>Macadamia spp.</i>            | 2S Albumin        |
| Native allergen  | Macadamia        | <i>Macadamia spp.</i>            |                   |
| Native allergen  | Mango            | <i>Mangifera indica</i>          |                   |
| Native allergen  | Mare's Milk      | <i>Equus caballus</i>            |                   |
| Native allergen  | Mealworm         | <i>Tenebrio molitor</i>          |                   |
| Cuc m 2          | Melon            | <i>Cucumis melo</i>              | Profilin          |
| Native allergen  | Migratory Locust | <i>Locusta migratoria</i>        |                   |
| Native allergen  | Millet           | <i>Panicum miliaceum</i>         |                   |
| Native allergen  | Mustard          | <i>Brassica/Sinapis spp.</i>     |                   |
| Sin a 1          | Mustard          | <i>Brassica/Sinapis spp.</i>     | 2S Albumin        |
| Native allergen  | Northern Prawn   | <i>Pandalus borealis</i>         |                   |

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|------------------|--------------|---|-------------------------------|
| Native allergen  | Oat          | <i>Avena sativa</i>   |                               |
| Native allergen  | Onion        | <i>Allium cepa</i>  |                               |
| Native allergen  | Orange       | <i>Citrus sinensis</i>  |                               |
| Native allergen  | Oregano      | <i>Origanum vulgare</i>   |                               |
| Native allergen  | Oyster       | <i>Ostrea edulis</i>  |                               |
| Native allergen  | Papaya       | <i>Carica papaya</i>  |                               |
| Native allergen  | Paprika      | <i>Capsicum annum</i>   |                               |
| Native allergen  | Parsely      | <i>Petroselinum crispum</i>   |                               |
| Native allergen  | Pea          | <i>Pisum sativum</i>  |                               |
| Pru p 3          | Peach        | <i>Prunus persica</i>   | nsLTP                         |
| Pru p 7          | Peach        | <i>Prunus persica</i>   | Gibberellin-regulated protein |
| Ara h 1          | Peanut       | <i>Arachis hypogaea</i>   | 7/8S Globulin                 |
| Ara h 2          | Peanut       | <i>Arachis hypogaea</i>   | 2S Albumin                    |
| Ara h 3          | Peanut       | <i>Arachis hypogaea</i>   | 11S Globulin                  |
| Ara h 6          | Peanut       | <i>Arachis hypogaea</i>   | 2S Albumin                    |
| Ara h 8          | Peanut       | <i>Arachis hypogaea</i>   | PR-10                         |
| Ara h 9          | Peanut       | <i>Arachis hypogaea</i>   | nsLTP                         |
| Ara h 15         | Peanut       | <i>Arachis hypogaea</i>   | Oleosin                       |
| Native allergen  | Pear         | <i>Pyrus communis</i>   |                               |
| Native allergen  | Pecan        | <i>Carya illinoensis</i>  |                               |
| Pis v 1          | Pistachio    | <i>Pistacia vera</i>  | 2S Albumin                    |
| Pis v 2          | Pistachio    | <i>Pistacia vera</i>  | 11S Globulin subunit          |
| Pis v 3          | Pistachio    | <i>Pistacia vera</i>  | 7/8S Globulin                 |
| Pis v 4          | Pistachio    | <i>Pistacia vera</i>  | Mn Superoxide-Dismutase       |
| Native allergen  | Poppy Seed   | <i>Papaver somniferum</i>   |                               |
| Pap s 2S Albumin | Poppy Seed   | <i>Papaver somniferum</i>   | 2S Albumin                    |
| Native allergen  | Pork         | <i>Sus domesticus</i>   |                               |
| Native allergen  | Potato       | <i>Solanum tuberosum</i>  |                               |
| Native allergen  | Pumpkin Seed | <i>Cucurbita pepo</i>   |                               |
| Native allergen  | Quinoa       | <i>Chenopodium quinoa</i>   |                               |
| Native allergen  | Rice         | <i>Oryza sativa</i>   |                               |
| Native allergen  | Salmon       | <i>Salmo salar</i>  |                               |
| Sal s 1          | Salmon       | <i>Salmo salar</i>  | $\beta$ -Parvalbumin          |
| Native allergen  | Scallop      | <i>Pecten spp.</i>  |                               |
| Native allergen  | Sesame Seed  | <i>Sesamum indicum</i>  |                               |
| Ses i 1          | Sesame Seed  | <i>Sesamum indicum</i>  | 2S Albumin                    |
| Native allergen  | Sheep's Milk | <i>Ovis aries</i>   |                               |
| Native allergen  | Shrimp Mix   | <i>Litopenaeus setiferus, Farfantepenaeus aztecus, Farfantepenaeus dourarum</i> |                               |
| Gly m 4          | Soy          | <i>Glycine max</i>  | PR-10                         |
| Gly m 5          | Soy          | <i>Glycine max</i>  | 7/8S Globulin                 |
| Gly m 6          | Soy          | <i>Glycine max</i>  | 11S Globulin                  |

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|-----------------------|----------------|-----------------------------|------------------------------------|
| Gly m 8               | Soy            | <i>Glycine max</i>          | 2S Albumin                         |
| Native allergen       | Spelt          | <i>Triticum spelta</i>      |                                    |
| Native allergen       | Squid          | <i>Loligo spp.</i>          |                                    |
| Fra a 1 +Fra a 3      | Strawberry     | <i>Fragaria ananassa</i>    | PR-10 + LTP                        |
| Native allergen       | Sunflower Seed | <i>Helianthus annuus</i>    |                                    |
| Sal s 1               | Swordfish      | <i>Xiphias gladius</i>      | $\beta$ -Parvalbumin               |
| Native allergen       | Thornback Ray  | <i>Raja clavata</i>         |                                    |
| rRaj c<br>Parvalbumin | Thornback Ray  | <i>Raja clavata</i>         | $\alpha$ -Parvalbumin              |
| Native allergen       | Tomato         | <i>Solanum lycopersicum</i> |                                    |
| Sola l 6              | Tomato         | <i>Solanum lycopersicum</i> | nsLTP                              |
|                       | Tuna           | <i>Thunnus albacares</i>    | $\beta$ -Parvalbumin               |
| Native allergen       | Tuna           | <i>Thunnus albacares</i>    |                                    |
| Native allergen       | Turkey         | <i>Meleagris gallopavo</i>  |                                    |
| Native allergen       | Venus Clam     | <i>Ruditapes spp.</i>       |                                    |
| Jug r 1               | Walnut Food    | <i>Juglans regia</i>        | 2S Albumin                         |
| Jug r 2               | Walnut Food    | <i>Juglans regia</i>        | 7/8S Globulin                      |
| Jug r 3               | Walnut Food    | <i>Juglans regia</i>        | nsLTP                              |
| Jug r 4               | Walnut Food    | <i>Juglans regia</i>        | 11S Globulin                       |
| Jug r 6               | Walnut Food    | <i>Juglans regia</i>        | 7/8S Globulin                      |
| Native allergen       | Walnut Food    | <i>Juglans regia</i>        |                                    |
| Tri a 14              | Wheat          | <i>Triticum aestivum</i>    | nsLTP                              |
| Tri a 19              | Wheat          | <i>Triticum aestivum</i>    | Omega-5-Gliadin                    |
| Tri a aA_TI           | Wheat          | <i>Triticum aestivum</i>    | Alpha-Amylase<br>Trypsin-Inhibitor |

| Aeroallergens   |                               |                            |                 |
|-----------------|-------------------------------|----------------------------|-----------------|
| Native allergen | Bahia Grass                   | <i>Paspalum notatum</i>    |                 |
| Native allergen | Bermuda Grass                 | <i>Cynodon dactylon</i>    |                 |
| Cyn d 1         | Bermuda Grass                 | <i>Cynodon dactylon</i>    | Beta-Expansin   |
| Native allergen | Common Reed                   | <i>Phragmites communis</i> |                 |
| Lol p 1         | Perennial Rye Grass<br>Pollen | <i>Lolium perenne</i>      | Beta-Expansin   |
| Native allergen | Rye (Cereal)                  | <i>Secale cereale</i>      |                 |
| Phl p 1         | Timothy Grass Pollen          | <i>Phleum pratense</i>     | Beta-Expansin   |
| Phl p 12        | Timothy Grass Pollen          | <i>Phleum pratense</i>     | Profilin        |
| Phl p 2         | Timothy Grass Pollen          | <i>Phleum pratense</i>     | Expansin        |
| Phl p 5.0101    | Timothy Grass Pollen          | <i>Phleum pratense</i>     | Grass Group 5/6 |
| Phl p 6         | Timothy Grass Pollen          | <i>Phleum pratense</i>     | Grass Group 5/6 |
| Phl p 7         | Timothy Grass Pollen          | <i>Phleum pratense</i>     | Polcalcin       |

| <b>Insect Allergens</b>                      |                          |   |                               |
|--|--------------------------|---|-------------------------------|
| Native allergen                              | American Cockroach       | <i>Periplaneta americana</i>                        |                               |
| Per a 7                                      | American Cockroach       | <i>Periplaneta americana</i>                        | Tropomyosin                   |
| Native allergen Sol spp.                     | Fire Ant                 | <i>Solenopsis richteri &amp; Solenopsis invicta</i> |                               |
| Bla g 1                                      | German Cockroach         | <i>Blatella germanica</i>                           | Cockroach group 1             |
| Bla g 2                                      | German Cockroach         | <i>Blatella germanica</i>                           | Aspartyl Protease             |
| Bla g 4                                      | German Cockroach         | <i>Blatella germanica</i>                           | Calycin                       |
| Bla g 5                                      | German Cockroach         | <i>Blatella germanica</i>                           | Glutathione S-transferase     |
| Bla g 9                                      | German Cockroach         | <i>Blatella germanica</i>                           | Arginine Kinase               |
| Api m 1                                      | Honey Bee venom          | <i>Apis mellifera</i>                               | Phospholipase A2              |
| Api m 10                                     | Honey Bee venom          | <i>Apis mellifera</i>                               | Icarapin Variant 2            |
| Native allergen                              | Honey Bee venom          | <i>Apis mellifera</i>                               |                               |
| Native allergen                              | Long-headed wasp venom   | <i>Dolichovespula spp.</i>                          |                               |
| Native allergen                              | Paper Wasp venom         | <i>Polistes dominulus</i>                           |                               |
| Pol d 5                                      | Paper Wasp venom         | <i>Polistes dominulus</i>                           | Antigen 5                     |
| Ves v 5                                      | Wasp venom               | <i>Vespula spp.</i>                                 | Antigen 5                     |
| Native allergen                              | Wasp venom               | <i>Vespula vulgaris</i>                             |                               |
| Ves v 1                                      | Wasp venom               | <i>Vespula vulgaris</i>                             | Phospholipase A1              |
| <b>Latex Allergens</b>                       |                          |   |                               |
| Hev b 1                                      | Latex                    | <i>Hevea brasiliensis</i>                           | Rubber elongation factor      |
| Hev b 11                                     | Latex                    | <i>Hevea brasiliensis</i>                           | Class 1 Chitinase             |
| Hev b 3                                      | Latex                    | <i>Hevea brasiliensis</i>                           | small rubber particle protein |
| Hev b 5                                      | Latex                    | <i>Hevea brasiliensis</i>                           | unknown                       |
| Hev b 6.02                                   | Latex                    | <i>Hevea brasiliensis</i>                           | Pro-Hevein                    |
| Hev b 8                                      | Latex                    | <i>Hevea brasiliensis</i>                           | Profilin                      |
| <b>Microorganisms &amp; Spores Allergens</b> |                          |   |                               |
| Mala s 11                                    | Malassezia sympodialis   | <i>Malassezia sympodialis</i>                       | unknown                       |
| Mala s 5                                     | Malassezia sympodialis   | <i>Malassezia sympodialis</i>                       | Cyclophilin                   |
| Mala s 6                                     | Malassezia sympodialis   | <i>Malassezia sympodialis</i>                       | unknown                       |
| <b>Mite Allergens</b>                        |                          |   |                               |
| Native allergen                              | Acarus Siro Storage Mite | <i>Acarus siro</i>                                  |                               |
| Der f 1                                      | American HDM             | <i>Dermatophagoides farinae</i>                     | Cysteine Protease             |

|                 |  |                                       |  |
|-----------------|--|---------------------------------------|--|
| Der f 2         | American HDM                                   | <i>Dermatophagoides farinae</i>       | NPC2 Family  |
| Blo t 5         | <i>Blomia tropicalis</i>                       | <i>Blomia tropicalis</i>              | Mite, Group 5  |
| Blo t 10        | <i>Blomia tropicalis</i>                       | <i>Blomia tropicalis</i>              | Tropomyosin  |
| Blo t 21        | <i>Blomia tropicalis</i>                       | <i>Blomia tropicalis</i>              | unknown  |
| Der p 1         | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | Cysteine Protease                                    |
| Der p 10        | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | Tropomyosin  |
| Der p 11        | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | Myosin, heavy chain                                  |
| Der p 2         | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | NPC2 Family  |
| Der p 23        | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | Chitinase class III, Peritrophin-like protein domain |
| Der p 5         | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | unknown  |
| Der p 7         | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | Mite Group 7   |
| Der p 20        | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | Arginine Kinase                                      |
| Der p 21        | European HDM                                   | <i>Dermatophagoides pteronyssinus</i> | unknown  |
| Gly d 2         | <i>Glycyphagus domesticus</i>                  | <i>Glycyphagus domesticus</i>         | NPC2 Family  |
| Lep d 2         | <i>Lepidoglyphus destructor</i>                | <i>Lepidoglyphus destructor</i>       | NPC2 Family  |
| Arg r 1         | Pigeon tick                                    | <i>Argas reflexus</i>                 | Lipocalin  |
| Native allergen | <i>Tyrophagus putrescentiae</i> - Storage Mite | <i>Tyrophagus destructor</i>          |  |
| Tyr p 2         | <i>Tyrophagus putrescentiae</i> - Storage Mite | <i>Tyrophagus destructor</i>          | NPC2 Family  |

| Mould Allergens |              |                              |                           |
|-----------------|--------------|------------------------------|---------------------------|
| Alt a 1         | Alternaria   | <i>Alternaria alternata</i>  | Alt a 1-Family            |
| Alt a 6         | Alternaria   | <i>Alternaria alternata</i>  | Enolase                   |
| Asp f 3         | Aspergillus  | <i>Aspergillus fumigatus</i> | Peroxisomal Protein       |
| Asp f 4         | Aspergillus  | <i>Aspergillus fumigatus</i> | unknown                   |
| Asp f 6         | Aspergillus  | <i>Aspergillus fumigatus</i> | Mn Superoxid-Dismutase    |
| Asp f 1         | Aspergillus  | <i>Aspergillus fumigatus</i> | Mitogillin Family         |
| Cla h 8         | Cladosporium | <i>Cladosporium herbarum</i> | Short Chain Dehydrogenase |

|                              |                     |                                |                       |
|------------------------------|---------------------|--------------------------------|-----------------------|
| Native allergen              | Cladosporium        | <i>Cladosporium herbarum</i>   |                       |
| Native allergen              | Penicillium         | <i>Penicillium chrysogenum</i> |                       |
| <b>Tree Pollen Allergens</b> |                     |                                |                       |
| Native allergen              | Acacia              | <i>Acacia spp.</i>             |                       |
| Aln g 1                      | Alder Tree          | <i>Alnus spp.</i>              | PR-10                 |
| Aln g 4                      | Alder Tree          | <i>Alnus spp.</i>              | Polcalcin             |
| Cup a 1                      | Arizona Cyprus Tree | <i>Cupressus arizonica</i>     | Pectate Lyase         |
| Fra e 1                      | Ash Tree            | <i>Fraxinus excelsior</i>      | Ole e 1-Family        |
| Native allergen              | Ash Tree            | <i>Fraxinus excelsior</i>      |                       |
| Fag s 1                      | Beech               | <i>Fagus sylvatica</i>         | PR-10                 |
| Native allergen              | Cottonwood          | <i>Populus nigra</i>           |                       |
| Native allergen              | Cypress             | <i>Cupressus sempervirens</i>  |                       |
| Pho d 2                      | Date Palm           | <i>Phoenix canariensis</i>     | Profilin              |
| Native allergen              | Elm                 | <i>Ulmus americana</i>         |                       |
| Cor a 1.0103                 | Hazel Tree Pollen   | <i>Corylus avellana</i>        | PR-10                 |
| Native allergen              | Hazel Tree Pollen   | <i>Corylus avellana</i>        |                       |
| Pla a 1                      | London Plane Tree   | <i>Platanus acerifolia</i>     | Plant Invertase       |
| Pla a 2                      | London Plane Tree   | <i>Platanus acerifolia</i>     | Polygalacturonase     |
| Pla a 3                      | London Plane Tree   | <i>Platanus acerifolia</i>     | nsLTP                 |
| Native allergen              | Mountain Cedar      | <i>Juniperus ashei</i>         |                       |
| Native allergen              | Mulberry Tree       | <i>Morus rubra</i>             |                       |
| Ole e 1                      | Olive Tree Pollen   | <i>Olea Europea</i>            | Common Olive Group 1  |
| Ole e 7                      | Olive Tree Pollen   | <i>Olea Europea</i>            | nsLTP                 |
| Ole e 9                      | Olive Tree Pollen   | <i>Olea Europea</i>            | 1,3 $\beta$ Glucanase |
| Bro p                        | Paper mulberry      | <i>Broussonetia papyrifera</i> |                       |
| Bet v 2                      | Silver Birch Tree   | <i>Betula verrucosa</i>        | Profilin              |
| Bet v 6                      | Silver Birch Tree   | <i>Betula verrucosa</i>        | Isoflavon Reductase   |
| Bet v 1                      | Silver Birch Tree   | <i>Betula verrucosa</i>        | PR-10                 |
| Cry J 1                      | Sugi                | <i>Cryptomeria japonica</i>    | Pectate Lyase         |
| Native allergen              | Tree of Heaven      | <i>Ailanthus altissima</i>     |                       |
| Native allergen              | Weeping Fig         | <i>Ficus benjamina</i>         |                       |
| <b>Weed Allergens</b>        |                     |                                |                       |
| Mer a 1                      | Annual Mercury      | <i>Mercurialis annua</i>       | Profilin              |
| Native allergen              | Hemp                | <i>Cannabis sativa</i>         |                       |
| Can s 3                      | Hemp (CBD)          | <i>Cannabis sativa</i>         | nsLTP                 |
| Che a 1                      | Lambs Quarters      | <i>Chenopodium album</i>       | Ole e 1-Family        |
| Native allergen              | Lambs Quarters      | <i>Chenopodium album</i>       |                       |
| Art v 1                      | Mugwort             | <i>Artemisia vulgaris</i>      | Plant Defensin        |
| Art v 3                      | Mugwort             | <i>Artemisia vulgaris</i>      | nsLTP                 |



ALEX Allergen list September 2021

|                 |                   |                                       |                       |
|-----------------|-------------------|---------------------------------------|-----------------------|
| Native allergen | Mugwort           | <i>Artemisia vulgaris</i>             |                       |
| Native allergen | Nettle            | <i>Urtica dioica</i>                  |                       |
| Native allergen | Pigweed           | <i>Amaranthus retroflexus</i>         |                       |
| Amb a 1         | Ragweed Pollen    | <i>Ambrosia artemisifolia/elatior</i> | Pectate Lyase         |
| Amb a 4         | Ragweed Pollen    | <i>Ambrosia artemisifolia/elatior</i> | Plant Defensin        |
| Native allergen | Ragweed Pollen    | <i>Ambrosia artemisifolia/elatior</i> |                       |
| Native allergen | Ribwort           | <i>Plantago lanceolata</i>            |                       |
| Pla I 1         | Ribwort           | <i>Plantago lanceolata</i>            | Ole e 1-Family        |
| Native allergen | Russian Thistle   | <i>Salsola kali</i>                   |                       |
| Sal k 1         | Russian Thistle   | <i>Salsola kali</i>                   | Pectin Methylesterase |
| Native allergen | Wall Pellitory    | <i>Parietaria judaica</i>             |                       |
| Par j 2         | Wall Pellitory    | <i>Parietaria judaica</i>             | nsLTP                 |
| <b>CCD</b>      |                   |                                       |                       |
| Hom s LF        | Hom s Lactoferrin | <i>Hom s LactoFerrin</i>              | CCD                   |