Welcome to the era of
MOLECULAR ALLERGY for animals!

PAX
pet allergy xplorer

POWERED BY MADX MACRO ARRAY DIAGNOSTICS TECHNOLOGY

- **First quantitative macroarray IgE test specifically designed for animals**
- **Over 200 allergen extracts and molecular components**
- **Better identification of allergen cross-reactivities**
- **Fully automated process, higher level of standardisation**
- **With CCD blocking and 2 blocking efficiency detectors**

nextmune

Molecular Allergology:
The future of IgE sensitisation detection

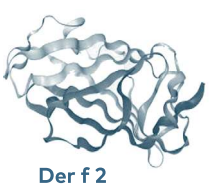
Molecular allergology is a state-of-the-art approach to the detection of sensitisations, whereby defined single allergen components are used for the determination of specific IgE in place of traditionally-used allergen extracts. The molecular components are recombinant proteins that provide a higher level of standardisation than allergen extracts and enable a more precise identification of IgE sensitisations. Molecular allergology tests are powerful tools that help pinpoint allergy triggers, thus facilitating risk assessment and therapy decisions.

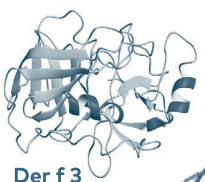
Nextmune is bringing you the first molecular allergology platform for animals, the next-generation in allergen IgE serology:
PAX - Pet Allergy Xplorer

What are the main advantages of PAX?

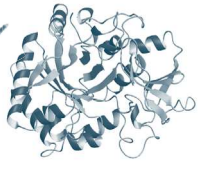
- First quantitative multiplex macroarray specifically designed for companion animals
- Over 200 allergen extracts and components included = lower testing cost per allergen
- Fully automated process = higher level of standardization (same result if tested multiple times)
- With CCD blocking and 2 blocking efficiency detectors
- Only 0.5 ml of serum needed per test
- Expected increase in serological test sensitivity due to a higher concentration of molecular allergens
- Identification of "primary" sensitizing allergens
- Identification of allergen cross-reactivities
- Selection of relevant allergens for specific immunotherapy


Allergen extract


Der f 2
NPC2 family


Der f 3
trypsin


Der f 10
tropomyosin

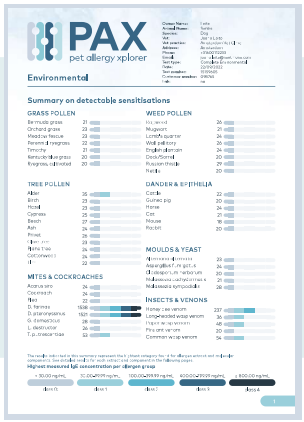

Der f 15
chitinase

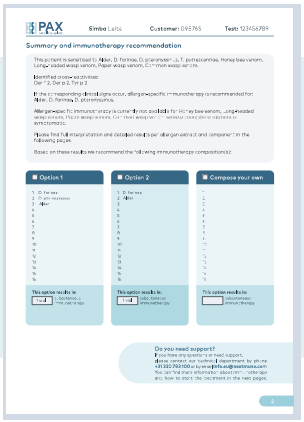

Der f 1
cysteine protease

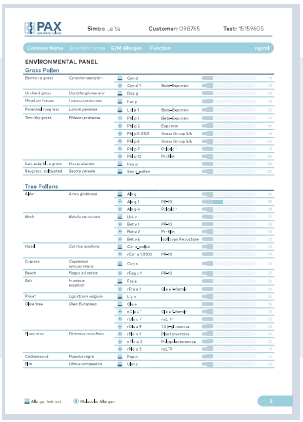
The PAX results are clearly set out, easy to interpret and include the following information:

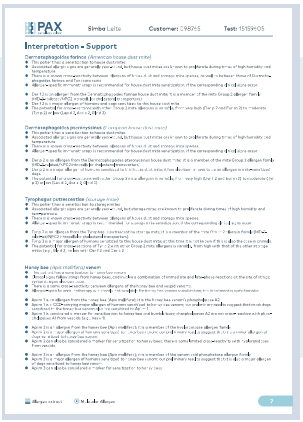
- Summary of detectable sensitizations
- Interpretation summary and treatment recommendation
- Detailed results per extract and components
- Detailed interpretation with Information about allergenicity and relevance, time of the year, possible cross-reactivities and treatment indication for each allergen

PAX Complete result

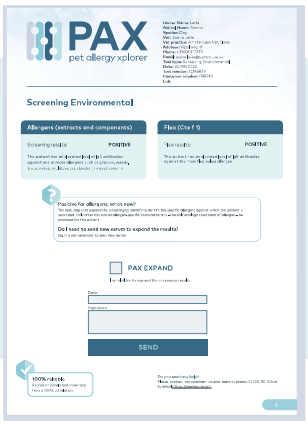








PAX Screening result



- Garanteed 100% reliable screening test
- Fast results
- Continuous support and advice with our vet allergy experts

PAX Allergens: Components & Extracts

	Common name	Scientific name	Extracts & Components
Grass Pollens	Bermuda grass	*Cynodon dactylon*	Cyn d *
			rCyn d 1
	Orchard grass	*Dactylis glomerata*	Dac g *
	Meadow fescue	*Festuca pratensis*	Fes p *
	Perennial ryegrass	*Lolium perenne*	rLol p 1
	Timothy	*Phleum pratense*	rPhl p 1
			rPhl p 2
			rPhl p 5.0101
			rPhl p 6
			rPhl p 7
			rPhl p 12
	Kentucky blue grass	*Poa pratensis*	Poa p *
	Ryegrass, cultivated	*Secale cereale*	Sec c_pollen *
Tree Pollens	Alder	*Alnus glutinosa*	Aln g *
			rAln g 1
			rAln g 4
	Silver birch	*Betula verrucosa*	Bet v *
			rBet v 1
			rBet v 2
			rBet v 6
	Hazel	*Corylus avellana*	Cor a_pollen *
			rCor a 1.0103
	Cypress	*Cupressus sempervirens*	Cup s *
	Beech	*Fagus sylvatica*	rFag s 1
	Ash	*Fraxinus excelsior*	Fra e *
			rFra e 1
	Privet	*Ligustrum vulgare*	Lig v *
	Olive tree	*Olea Europaea*	Ole e *
			nOle e 1
			rOle e 7
			rOle e 9
	London plane tree	*Platanus acerifolia*	rPla a 1
			nPla a 2
			rPla a 3
	Cottonwood	*Populus nigra*	Pop n *
	Elm	*Ulmus campestris*	Ulm c *
Weed Pollens	Ragweed	*Ambrosia artemisiifolia*	Amb a *
			rAmb a 1
			rAmb a 4
	Mugwort	*Artemisia vulgaris*	Art v *
			rArt v 1.0101
			rArt v 3.0201
	Lamb's quarter	*Chenopodium album*	Che a *
			rChe a 1
	Wall pellitory	*Parietaria judaica*	Par j *
			rPar j 2
	Ribwort / Plantain	*Plantago lanceolata*	Pla l *
			rPla l 1
	Dock/Sorrel	*Rumex crispus / acetosella*	Rum c / * Rum a
	Russian thistle	*Salsola kali*	Sal k *
			rSal k 1
	Nettle	*Urtica dioica*	Urt d *

	Common name	Scientific name	Extracts & Components
Danders & Epithelia	Cattle	*Bos domesticus*	rBos d 2
	Dog	*Canis familiaris*	rCan f 1
			rCan f 2
			nCan f 3
			rCan f 4
			rCan f 6
			Can f_maleurine (including Can f 5) *
			rCan f Fel d 1 like
	Guinea pig	*Cavia porcellus*	rCav p 1
	Horse	*Equus caballus*	rEqu c 1
			nEqu c 3
			rEqu c 4
	Cat	*Felis domesticu*	rFel d 1
			nFel d 2
			rFel d 4
			rFel d 7
	Mouse	*Mus musculus*	rMus m 1
	Rabbit	*Oryctolagus cuniculus*	rOry c 1
			rOry c 2
			rOry c 3
Mites & Cockroaches	Acarus siro	*Acarus siro*	Aca s *
	German cockroach	*Blatella germanica*	rBla g 1
			rBla g 2
			rBla g 4
			rBla g 5
			rBla g 9
	Flea	*Ctenocephali-des felis*	Cte f 1
	Dermatophagoi-des farinae	*Dermatopha-goides farinae*	Der f *
			rDer f 1
			rDer f 2
			rDer f 15
			rDer f 18
	Dermatopha-goides pteronys-sinus	*Dermatopha-goides pte-ronyssinus*	Der p *
			rDer p 1
			rDer p 2
			rDer p 5
			rDer p 7
			rDer p 10
			rDer p 11
			rDer p 20
			rDer p 21
			rDer p 23
	Glycyphagus domesticus	*Glycyphagus domesticus*	rGly d 2
	Lepidoglyphus destructor	*Lepidoglyphus destructor*	Lep d *
		Lepidoglyphus destructor	rLep d 2
	Tyrophagus putrescentiae	*Tyrophagus putrescentiae*	Tyr p *
		Tyrophagus putrescentiae	rTyr p 2
	Alternaria alternata	*Alternaria alternata*	Alt a *
			rAlt a 1
			rAlt a 6

	Common name	Scientific name	Extracts & Components
Moulds & Yeasts	Aspergillus fumigatus	*Aspergillus fumigatus*	Asp f *
			rAsp f 1
			rAsp f 3
			rAsp f 4
			rAsp f 6
	Cladosporium herbarum	*Cladosporium herbarum*	Cla h *
			rCla h 8
	Malassezia pachydermatis	*Malassezia pachydermatis*	Mala p *
	Malassezia sympodialis	*Malassezia sympodialis*	rMala s 1
			rMala s 9
			rMala s 5
			rMala s 6
			rMala s 11
Insect Venoms	Honey bee venom	*Apis mellifera*	Api m *
			nApi m 1
			Api m 2
			Api m 3
			Api m 5
			rApi m 10
	Long-headed wasp venom	*Dolichovespula spp.*	Dol spp *
	Paper wasp venom	*Polistes dominulus*	Pol d *
			rPol d 5
	Fire ant venom	*Solenopsis richteri & Solenopsis invicta*	Sol spp *
	Common wasp venom	*Vespula vulgaris*	Ves v *
			rVes v 1
			rVes v 5
Foods	Oat	*Avena sativa*	Ave s *
	Buckwheat	*Fagopyrum esculentum*	Fag e *
			nFag e 2
	Sunflower seed	*Helianthus annuus*	Hel a *
	Barley	*Hordeum vulgare*	Hor v *
	Rice	*Oryza sativa*	Ory s
			Ory s_GLUB1
	Millet	*Panicum miliaceum*	Pan m *
	Rye, cultivated	*Secale cereale*	Sec c_flour *
	Wheat	*Triticum aestivum*	Tri a *
			rTri a 14
			rTri a 19
			nTri a aA_TI
	Corn, cereal	*Zea mays*	Zea m *
			rZea m 14
			Zea m_GBSSI
	Apple	*Malus domestica*	rMal d 1
			nMal d 2
			rMal d 3
	Peanut	*Arachis hypogaea*	nAra h 1
			rAra h 2
			nAra h 3
			rAra h 5
			rAra h 6
			rAra h 8
			rAra h 9
			rAra h 15

* Extract

Foods	Common name	Scientific name	Extracts & Components
	Soy	*Glycine max*	Gly m *
			rGly m 4
			rGly m 5
			nGly m 6
			nGly m 8
	Lentil	*Lens culinaris*	Len c *
			Len c 1
			Len c 2
			Len c 3
	Pea	*Pisum sativum*	Pis s *
			Pis s 1
			Pis s 2
			Pis s 3
	Cow's milk	*Bos domesticus*	Bos d_milk *
			nBos d 4
			nBos d 5
			nBos d 8
	Egg white	*Gallus domesticus*	Gal d_white *
			nGal d 1
			nGal d 2
			nGal d 3
			nGal d 4
	Egg yolk	*Gallus domesticus*	Gal d_yolk *
			nGal d 5

Foods	Common name	Scientific name	Extracts & Components
	Beef	*Bos domesticus*	Bos d_meat *
			nBos d 6
			Bos d 7
			Bos d_ACTA1
			Bos d_LDHA
	Horse	*Equus caballus*	Equ c_meat *
	Rabbit	*Oryctolagus spp.*	Ory_meat *
			Ory c_CKM
			Ory c_GAPDH
			Ory c_PGM1
			Ory c_PKM
			Ory c_TPI1
	Lamb	*Ovis aries*	Ovi a_meat *
			Ovi a_IgG
	Pig	*Sus domesticus*	Sus d_meat *
			rSus d 1
	Chicken	*Gallus domesticus*	Gal d_meat *
			Gal d 7
			Gal d 9
			Gal d_PKM
	Turkey	*Meleagris gallopavo*	Mel g *
	Mealworm	*Tenebrio molitor*	Ten m *
	Herring, Atlantic	*Clupea harengus*	Clu h *
			rClu h 1

Foods	Common name	Scientific name	Extracts & Components
	Cod, Atlantic	*Gadus morhua*	Gad m *
			nGad m 1
			Gad m 2+3
			Gad m 4
	Salmon, Atlantic	*Salmo salar*	Sal s *
			Sal s 1
			Sal s 2
			Sal s 3
			Sal s 4
			Sal s 6
			Sal s 7
			Sal s 8
	Mackerel, Atlantic	*Scomber scombrus*	Sco s *
			rSco s 1
	Tuna	*Thunnus albacares*	Thu a *
			Thu a 1
	Carrot	*Daucus carota*	Dau c *
			rDau c 1
	Tomato	*Solanum lycopersicum*	Sola l *
			rSola l 6
	Potato	*Solanum tuberosum*	Sol t *
			Sol t 2
			Sol t_GBSSI

* Extract