

PATIENT NAME:

XXXX

DATE OF BIRTH:



SAMPLE ID:

XXXX

QR-CODE:

XXXX

TECHNOLOGY : MOLECULAR NANO MICROARRAY

COMPONENT RESOLVED DIAGNOSTIC

ORBITO ASIA DIAGNOSTICS

REFERRING PHYSICIAN:

XXXX

TESTED ALLERGENS:

XXXX

ANALYZED ON:

XXXX

ADDITIONAL INFORMATION:

TEST METHOD : ALLER IGE

ORBITO ASIA DIAGNOSTICS

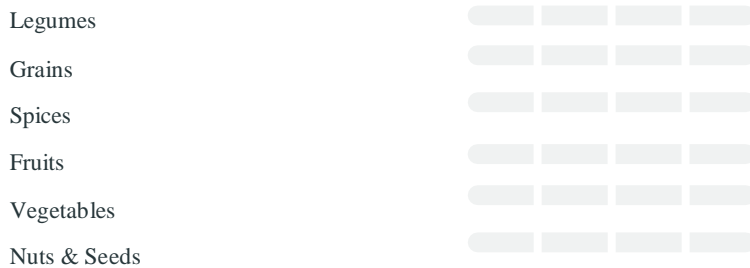
**Total IgE: 297 kU/L**

**Normal Total-IgE**

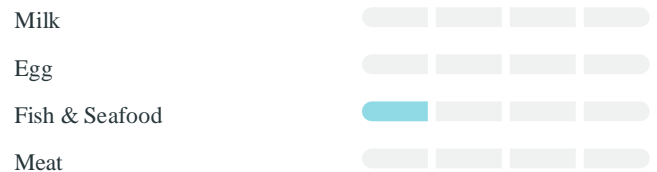
**Adults: < 100 kU/L**

## Report Summary

### PLANT-BASED FOOD



### ANIMAL-DERIVED FOOD



### EPITHELIAL TISSUES OF ANIMALS



### Highest measured IgE concentration per allergen group



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**Customer Care**

0422 - 4030201


0422 - 4030202

**Reports**





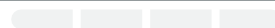
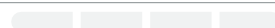
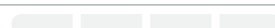









0422 - 4030203

0422 - 4030204

## Summary of all positive results

Name	E/M	Allergen	Protein Family	kUA/L
<b>ANIMAL FOOD</b>				
<b>Seafood</b>				
Black Tiger Shrimp	●	Pen m 3	Myosin, light chain	0.79 

## Summary of all negative results

Name	E/M	Allergen	Protein Family	kUA/L
<b>PLANT FOOD</b>				
<b>Legumes</b>				
Peanut	●	Ara h 1	7/8S Globulin	≤ 0.10 
	●	Ara h 2	2S Albumin	≤ 0.10 
	●	Ara h 3	11S Globulin	≤ 0.10 
	●	Ara h 6	2S Albumin	≤ 0.10 
	●	Ara h 8	PR-10	≤ 0.10 
	●	Ara h 9	nsLTP	≤ 0.10 
	●	Ara h 15	Oleosin	≤ 0.10 
Chickpea	●●●●	Cic a		≤ 0.10 
Soy	●	Gly m 4	PR-10	≤ 0.10 
	●	Gly m 5	7/8S Globulin	≤ 0.10 
	●	Gly m 6	11S Globulin	≤ 0.10 
	●	Gly m 8	2S Albumin	≤ 0.10 
Lentil	●●●●	Len c		≤ 0.10 
White bean	●●●●	Pha v		≤ 0.10 
Pea	●●●●	Pis s		≤ 0.10 
<b>Cereals</b>				
Oat	●●●●	Ave s		≤ 0.10 

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Name	E/M	Allergen	Protein Family	kUA/L
Quinoa	••••	Che q		≤ 0.10
Common buckwheat	••••	Fag e		≤ 0.10
	⊙	Fag e 2	2S Albumin	≤ 0.10
Barley	••••	Hor v		≤ 0.10
Lupine seed	••••	Lup a		≤ 0.10
Rice	••••	Ory s		≤ 0.10
Millet	••••	Pan m		≤ 0.10
Cultivated rye	••••	Sec c_flour		≤ 0.10
Wheat	⊙	Tri a aA_TI	Alpha-Amylase Trypsin-Inhibitor	≤ 0.10
	⊙	Tri a 14	nsLTP	≤ 0.10
	⊙	Tri a 19	Omega-5-Gliadin	≤ 0.10
Spelt	••••	Tri s		≤ 0.10
Maize	••••	Zea m		≤ 0.10
	⊙	Zea m 14	nsLTP	≤ 0.10
<b>Spices</b>				
Paprika	••••	Cap a		≤ 0.10
Caraway	••••	Car c		≤ 0.10
Oregano	••••	Ori v		≤ 0.10
Parsley	••••	Pet c		≤ 0.10
Anise	••••	Pim a		≤ 0.10
Mustard	••••	Sin		≤ 0.10
	⊙	Sin a 1	2S Albumin	≤ 0.10
<b>Fruits</b>				
Kiwi	⊙	Act d 1	Cysteine protease	≤ 0.10
	⊙	Act d 2	TLP	≤ 0.10
	⊙	Act d 5	Kiwellin	≤ 0.10
	⊙	Act d 10	nsLTP	≤ 0.10
Papaya	••••	Car p		≤ 0.10
Orange	••••	Cit s		≤ 0.10
Melon	⊙	Cuc m 2	Profilin	≤ 0.10
Fig	••••	Fic c		≤ 0.10
Strawberry	⊙	Fra a 1+3	PR-10+LTP	≤ 0.10
Apple	⊙	Mal d 1	PR-10	≤ 0.10
	⊙	Mal d 2	TLP	≤ 0.10

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Name	E/M	Allergen	Protein Family	kUA/L
	⊙	Mal d 3	nsLTP	≤ 0.10
Mango	⊙	Man i		≤ 0.10
Banana	⊙	Mus a		≤ 0.10
Avocado	⊙	Pers a		≤ 0.10
Cherry	⊙	Pru av		≤ 0.10
Peach	⊙	Pru p 3	nsLTP	≤ 0.10
Pear	⊙	Pyr c		≤ 0.10
Blueberry	⊙	Vac m		≤ 0.10
Grapes	⊙	Vit v 1	nsLTP	≤ 0.10
<b>Vegetables</b>				
Onion	⊙	All c		≤ 0.10
Garlic	⊙	All s		≤ 0.10
Celery	⊙	Api g 1	PR-10	≤ 0.10
	⊙	Api g 2	nsLTP	≤ 0.10
	⊙	Api g 6	nsLTP	≤ 0.10
Carrot	⊙	Dau c		≤ 0.10
	⊙	Dau c 1	PR-10	≤ 0.10
Potato	⊙	Sol t		≤ 0.10
Tomato	⊙	Sola 1		≤ 0.10
	⊙	Sola 1 6	nsLTP	≤ 0.10
<b>Nuts</b>				
Cashew	⊙	Ana o		≤ 0.10
	⊙	Ana o 2	11S Globulin	≤ 0.10
	⊙	Ana o 3	2S Albumin	≤ 0.10
Brazil nut	⊙	Ber e		≤ 0.10
	⊙	Ber e 1	2S Albumin	≤ 0.10
Pecan	⊙	Car i		≤ 0.10
Hazelnut	⊙	Cor a 1.0401	PR-10	≤ 0.10
	⊙	Cor a 8	nsLTP	≤ 0.10
	⊙	Cor a 9	11S Globulin	≤ 0.10
	⊙	Cor a 11	7/8S Globulin	≤ 0.10
	⊙	Cor a 14	2S Albumin	≤ 0.10
Walnut	⊙	Jug r 1	2S Albumin	≤ 0.10
		Jug r 2	7/8S Globulin	≤ 0.10
		Jug r 3	nsLTP	≤ 0.10

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Name	E/M	Allergen	Protein Family	kU <sub>A</sub> /L
	⊙	Jug r 4	11S Globulin	≤ 0.10
	⊙	Jug r 6	7/8S Globulin	≤ 0.10
Macadamia	⊙	Mac i 2S Albumin	2S Albumin	≤ 0.10
	⊙	Mac inte		≤ 0.10
Pistachio	⊙	Pis v 1	2S Albumin	≤ 0.10
	⊙	Pis v 2	11S Globulin subunit	≤ 0.10
	⊙	Pis v 3	7/8S Globulin	≤ 0.10
Almond	⊙	Pru du		≤ 0.10
<b>Seed</b>				
Pumpkin seed	⊙	Cuc p		≤ 0.10
Sunflower seed	⊙	Hel a		≤ 0.10
Poppy seed	⊙	Pap s		≤ 0.10
	⊙	Pap s 2S Albumin	2S Albumin	≤ 0.10
Sesame	⊙	Ses i		≤ 0.10
	⊙	Ses i 1	2S Albumin	≤ 0.10
Fenugreek seeds	⊙	Tri fo		≤ 0.10
<b>ANIMAL FOOD</b>				
<b>Milk</b>				
Cow, milk	⊙	Bos d_milk		≤ 0.10
	⊙	Bos d 4	α-Lactalbumin	≤ 0.10
	⊙	Bos d 5	β-Lactoglobulin	≤ 0.10
	⊙	Bos d 8	Casein	≤ 0.10
Camel	⊙	Cam d		≤ 0.10
Goat, milk	⊙	Cap h_milk		≤ 0.10
Mare's milk	⊙	Equ c_milk		≤ 0.10
Sheep, milk	⊙	Ovi a_milk		≤ 0.10
<b>Egg</b>				
Egg white	⊙	Gal d_white		≤ 0.10
Egg yolk	⊙	Gal d_yolk		≤ 0.10
Egg white	⊙	Gal d 1	Ovomucoid	≤ 0.10
	⊙	Gal d 2	Ovalbumin	≤ 0.10
	⊙	Gal d 3	Ovotransferrin	≤ 0.10

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Name	E/M	Allergen	Protein Family	
	○	Gal d 4	Lysozym C	≤ 0.10
Egg yolk	○	Gal d 5	Serum Albumin	≤ 0.10
<b>Seafood</b>				
Herring worm	○	Ani s 1	Kunitz Serin Protease Inhibitor	≤ 0.10
	○	Ani s 3	Tropomyosin	≤ 0.10
Crab	●●●●	Chi spp.		≤ 0.10
Herring	●●●●	Clu h		≤ 0.10
	○	Clu h 1	β-Parvalbumin	≤ 0.10
Brown shrimp	○	Cra c 6	Troponin C	≤ 0.10
Carp	○	Cyp c 1	β-Parvalbumin	≤ 0.10
Atlantic cod	●●●●	Gad m		≤ 0.10
	○	Gad m 2+3	β-Enolase & Aldolase	≤ 0.10
	○	Gad m 1	β-Parvalbumin	≤ 0.10
Lobster	●●●●	Hom g		≤ 0.10
Shrimp	●●●●	Lit s		≤ 0.10
Squid	●●●●	Lol spp.		≤ 0.10
Common mussel	●●●●	Myt e		≤ 0.10
Oyster	●●●●	Ost e		≤ 0.10
Shrimp	●●●●	Pan b		≤ 0.10
Scallop	●●●●	Pec spp.		≤ 0.10
Black Tiger Shrimp	○	Pen m 1	Tropomyosin	≤ 0.10
	○	Pen m 2	Arginine kinase	≤ 0.10
	○	Pen m 4	Sarcoplasmic Calcium Binding Protein	≤ 0.10
Thornback ray	●●●●	Raj c		≤ 0.10
	○	Raj c Parvalbumin	α-Parvalbumin	≤ 0.10
Clam	●●●●	Rud spp.		≤ 0.10
Salmon	●●●●	Sal s		≤ 0.10
	○	Sal s 1	β-Parvalbumin	≤ 0.10
Atlantic mackerel	●●●●	Sco s		≤ 0.10
	○	Sco s 1	β-Parvalbumin	≤ 0.10
Tuna	●●●●	Thu a		≤ 0.10

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	<input checked="" type="radio"/>	Thun a 1	β-Parvalbumin	≤ 0.10	<input type="text"/>
Swordfish	<input checked="" type="radio"/>	Xip g 1	β-Parvalbumin	≤ 0.10	<input type="text"/>

Name	E/M	Allergen	Protein Family	kUA/L
<b>Meat</b>				
House cricket	<input checked="" type="checkbox"/>	Ach d		0.20 <input type="text"/>
Cattle, meat	<input checked="" type="checkbox"/>	Bos d_meat		≤ 0.10 <input type="text"/>
	<input checked="" type="checkbox"/>	Bos d 6	Serum Albumin	≤ 0.10 <input type="text"/>
Horse, meat	<input checked="" type="checkbox"/>	Equ c_meat		≤ 0.10 <input type="text"/>
Chicken meat	<input checked="" type="checkbox"/>	Gal d_meat		≤ 0.10 <input type="text"/>
Migratory locust	<input checked="" type="checkbox"/>	Loc m		≤ 0.10 <input type="text"/>
Turkey	<input checked="" type="checkbox"/>	Mel g		≤ 0.10 <input type="text"/>
Rabbit, meat	<input checked="" type="checkbox"/>	Ory_meat		≤ 0.10 <input type="text"/>
Sheep, meat	<input checked="" type="checkbox"/>	Ovi a_meat		≤ 0.10 <input type="text"/>
Pork	<input checked="" type="checkbox"/>	Sus d_meat		≤ 0.10 <input type="text"/>
	<input checked="" type="checkbox"/>	Sus d 1	Serum Albumin	≤ 0.10 <input type="text"/>
Mealworm	<input checked="" type="checkbox"/>	Ten m		≤ 0.10 <input type="text"/>

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## Raven Interpretation Summary

### Sample Information

The sample was tested on ALEX<sup>2</sup> Barcode XXXX, interpretation date XXXX

Of the tested XXX allergens, 2 were/was above the cut off of 0.3 kU<sub>A</sub>/L. A sensitisation can be an indicator of an IgE dependent allergy. Kindly correlate with clinical symptoms. For all positive ALEX<sup>2</sup> allergens, comments for interpretation guidance are listed below.

### Total IgE: 297 kU/L

The measured total IgE was 297 kU/L. With a total IgE titre above 100 kU/L, allergy is likely.

### Seafood

#### Shrimp

Sensitisation to shrimp was detected. Allergic symptoms associated with shrimp allergy include mild to severe anaphylactic reactions after shrimp consumption as well as respiratory/asthmatic reactions upon exposure to cooking vapors. The degree of cross-reactivity between crustaceans is very high.

Pen m 3 is a member of the Myosin Light Chain allergen family (MLC). The degree of cross-reactivity between Pen m 3 and other members of the MLC allergen family is unknown, but probably high with other shrimp species and possible with chicken. It is stable to heat and presumably also to digestion.

include extensive patient training on avoidance measures and the prescription of an emergency kit (including adrenalin autoinjector for severe cases).

DISCLAIMER: THE PRESENCE OF IgE-ANTIBODIES IMPLIES A RISK OF ALLERGIC REACTIONS AND HAS TO BE ANALYZED IN CONJUNCTION WITH THE CLINICAL HISTORY AND OTHER DIAGNOSTIC TEST RESULTS. THE RAVEN INTERPRETATION GUIDANCE SOFTWARE IS A TOOL TO SUPPORT PHYSICIANS IN THE INTERPRETATION OF ALEX 2 RESULTS. RAVEN COMMENTS DO NOT REPLACE THE DIAGNOSIS BY A PHYSICIAN. NO LIABILITY IS ACCEPTED FOR RAVEN COMMENTS AND RESULTING THERAPEUTIC INTERVENTIONS. THE STATED COMMENTS ARE DESIGNED EXCLUSIVELY FOR ALEX2 RESULTS.

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