



## YOUR BENEFIT

As a Patient you profit from this comprehensive approach by getting the therapy and the advice you need in the quickest way possible:

### RISK ANALYSIS

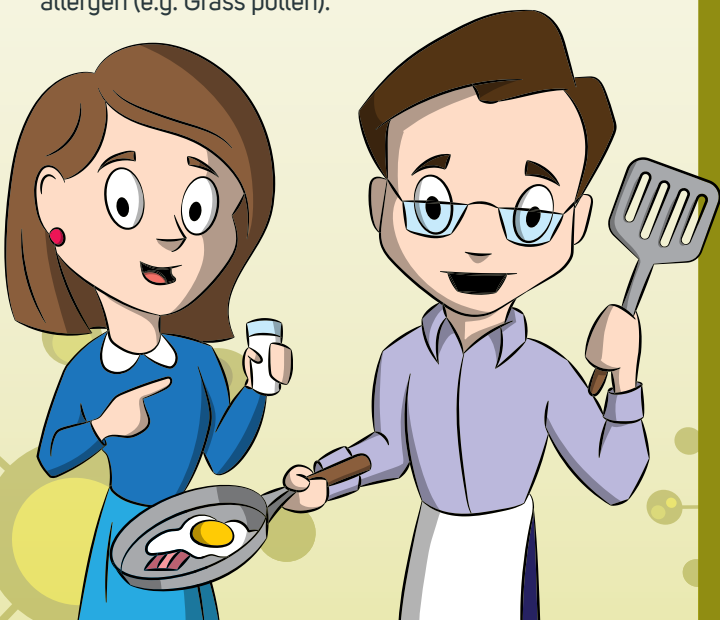
Some food allergens are more dangerous than others. Some foods are tolerated when cooked/ baked, others are resistant to cooking/baking.

### RESOLVE CROSS-REACTIVITIES

Often, the allergic immune system reacts with certain allergens that function as "starter" allergens. Starter allergens can cause symptoms against many different allergen sources through cross-reactivity. With an analysis of molecular allergens, starter allergens can be identified, and therapeutic interventions can be directed accordingly.

### ALLERGEN-SPECIFIC IMMUNOTHERAPY(AIT)

AIT allows for a causal treatment of your allergy by training your immune system to tolerate the culprit allergen (e.g. Grass pollen).



## STEPS TO PERFORM YOUR ALLERGY EXPLORER (ALEX<sup>2</sup>) TEST

- 1 BLOOD COLLECTION AT YOUR DOCTOR'S OFFICE/IN YOUR LAB**  

- 2 ANALYSIS WITH ALEX<sup>2</sup>**  

- 3 MEDICAL REPORT**  

- 4 VISIT PHYSICIAN'S OFFICE – THERAPEUTIC CHOICE(S)**  


Doctor's stamp	Adress
	Phone number
	Email
	Opening hours
	Laboratory contact

02-MKT-03-EN-01



**MAD<sup>X</sup>**  
MACRO ARRAY DIAGNOSTICS

## ALEX<sup>2</sup> – Allergy Explorer Identify your allergies!



## WHAT IS ALLERGY?

Allergy is a commonly used term to describe a misguided reaction of the immune system. The term allergy itself is a combination of the Greek words for unknown and reaction. During an allergic reaction the immune system is triggered by harmless substances (e.g. pollen, mite particles, etc.), which leads to symptoms like itchy eyes, rhinitis or in rare cases life-threatening reactions (anaphylactic shock).

Antibodies of the IgE\* class play a pivotal role in the development of immediate type allergies. Without IgE, allergy (Type I) is not possible.

Allergies affect around 25 % of the general population. Many allergic patients do not take their allergy seriously and are suffering from subsequent complications, e.g. allergic asthma or are subject to unnecessary dietary restrictions.

In most cases, allergy starts in early childhood. This puts a special responsibility on parents, who have to manage the safety and unimpeded development of their child. To help parents in this endeavour a proper diagnosis and early therapeutic interventions are essential.

This not only leads to an alleviation of current symptoms but can also counteract a deterioration or prevent the development of new allergies.



Did you know

### \*What is IgE?

Immuno-Globulin Class E (IgE) is part of a molecule class known as Immuno-Globulins or Antibodies. In healthy individuals the function of IgE is to fight parasitic infections. In allergic individuals IgE is misdirected to fight harmless substances like pollen or mite particles etc.

Without the elevated levels of IgE, Type I allergies (immediate type) cannot occur.



### Typical allergy symptoms

- |                       |             |
|-----------------------|-------------|
| • Chronic rhinitis    | • Skin rash |
| • Itchy & watery eyes | • Itchiness |
| • Shortage of breath  | • Diarrhoea |
| • Coughing            | • Vomiting  |

## TYPICAL ALLERGEN SOURCES



HOUSE DUST MITES



CAT & DOG FUR



MILK



POLLEN



PEANUTS



WHEAT



NUTS



FISH & SEAFOOD

## THE ALLERGY TEST

We employ the latest technology in search for the triggers of your allergies. The Allergy Explorer (ALEX<sup>2</sup>) test can check for specific IgE antibodies to all relevant allergen sources (exception: drug allergens – e.g. Penicillin). Whether pollen, mites, furry animals, insect venoms, moulds and yeasts, food or latex – ALEX<sup>2</sup> has them all on board!

ALEX<sup>2</sup> is also equipped with many molecular allergens, which allow for a comprehensive understanding of allergic cross-reactions, risk assessment of food allergies (to allow for tailored dietary recommendations). Likewise, allergen-specific immunotherapy can be directed against the main trigger (available for pollen, house dust mites and insect venoms) of symptoms.

ALEX<sup>2</sup> is equipped with close to 300 allergens and can investigate the willingness of your immune system to react with those allergens.

The final diagnosis is made by your physician.

