

# Tracking down your ALLERGIES !



With **ISAC**<sup>®</sup>

*Immuno Solid-phase Allergen Chip*

**1 drop of blood ...**

**... for more than 100 Allergens!**

**ALLERGY - when the immune system overacts**

# ISAC<sup>®</sup> - Immuno Solid-phase Allergen Chip

## Dear Patient!

### Do you have allergic reactions to specific substances?

Do you know that a pathological hypersensitivity of your immune system may be responsible for symptoms such as:

Running nose, permanent sniffles, itching or watery eyes,  
Shortness of breath, coughing,  
Skin rashes, swelling,  
Nausea, disorders of the digestive system and diarrhea

### Do you know where this hypersensitivity comes from?

An allergy occurs when the body's immune system has an exaggerated reaction to usually harmless substances: the body then qualifies these substances as "foreign", or, in the medical vernacular, "allergen".

Your immune system builds antibodies against the corresponding allergen already at the very first contact with the allergen source (=sensitization) which may trigger an acute immune response (=symptom) at any further contact. Therefore, the earlier you take preventive measures to avoid and reduce allergic reactions, the sooner the pathological development will be stopped.

### What does ISAC<sup>®</sup> stand for?

Detecting specific antibodies in your blood helps identify a sensibilisation even before the allergic reaction starts. **ISAC<sup>®</sup>** offers you a new testing method which can identify a large number (currently **over 100**) of allergy-causing substances (**allergens**), thanks to the innovative *BioChip* technology. This test is fast, reliable and performed in a single step.

The detection comprises, among others, allergic components from:

<b>Plants</b>	pollen of grasses, herbs, trees and sunflower
<b>Pets</b>	dog, cat
<b>Insects</b>	honeybees, mites and cockroaches
<b>Moulds</b>	Aspergillus, Alternaria, Cladosporium
<b>Latex</b>	Hevea brasiliensis
<b>Food</b>	eggs, cow's milk, carrots, celery, peaches, kiwi apples, wheat, prawns, hazelnut and cashew

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## Which advantages does ISAC<sup>®</sup> offer compared to other tests ?

**One drop of blood from a vein or a fingertip** is sufficient to conduct the test. The procedure is generally painless and gentle.

While other testing methods use very complex extracts (e.g., from animal hair, pollen, mites, food or latex) **ISAC<sup>®</sup>** uses highly purified natural, or manufactured allergens. Thereby, **ISAC<sup>®</sup>** permits an accurate determination of the allergy - triggering individual components and avoids direct contact with the testing substances as usually done with a classical skin test.

## Which information does the ISAC<sup>®</sup> - test provide?

**ISAC<sup>®</sup>** determines your individual sensitisation profile, yet allows beyond that to draw conclusions about potential cross-reactions and multiple sensitizations.

**An example:** Patients, who react to birch-pollen, frequently do not tolerate foods containing similar substances such as apples, carrots and celery. The underlying cross-sensitization between related components from different sources can be revealed by **ISAC<sup>®</sup>** in just one step.

Based on the results of the **ISAC<sup>®</sup>**, your practitioner can provide the following:

- A precise description of the allergens responsible for your symptoms in one single step.

- The determination of your individual allergy profile which will serve as a base for choosing the most suitable therapy, e.g. by medication or allergy vaccines (= specific immune therapy).

- The recommendation of prophylactic measures to avoid or reduce allergic symptoms (e.g. by excluding any contact with the allergen).

## How is the ISAC<sup>®</sup> - test conducted?

The biochip-based test requires a small amount of blood. The blood sample will be drawn by your assigning physician and subsequently sent to our laboratory for analysis. Your medical doctor will receive your test results in form of a very detailed report elaborated by an internationally respected and acknowledged specialist in allergology, serving as a base for individualised therapy recommendations.

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GENOSENSE Diagnostics GmbH is certified and works according to strictest European quality criteria.

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