



# **Puzzling allergies? Unparalleled answers**

**ImmunoCAP™ ISAC assay from the manufacturer  
of the gold standard IgE blood test**

# ImmunoCAP ISAC assay

helps solve puzzling allergies ...

## ... when symptoms indicate multi-sensitization or broad cross-reactivity

A multiplex test may reduce time to diagnosis and save costs.<sup>1\*</sup> It can provide a quick and comprehensive sensitization profile.<sup>1</sup>

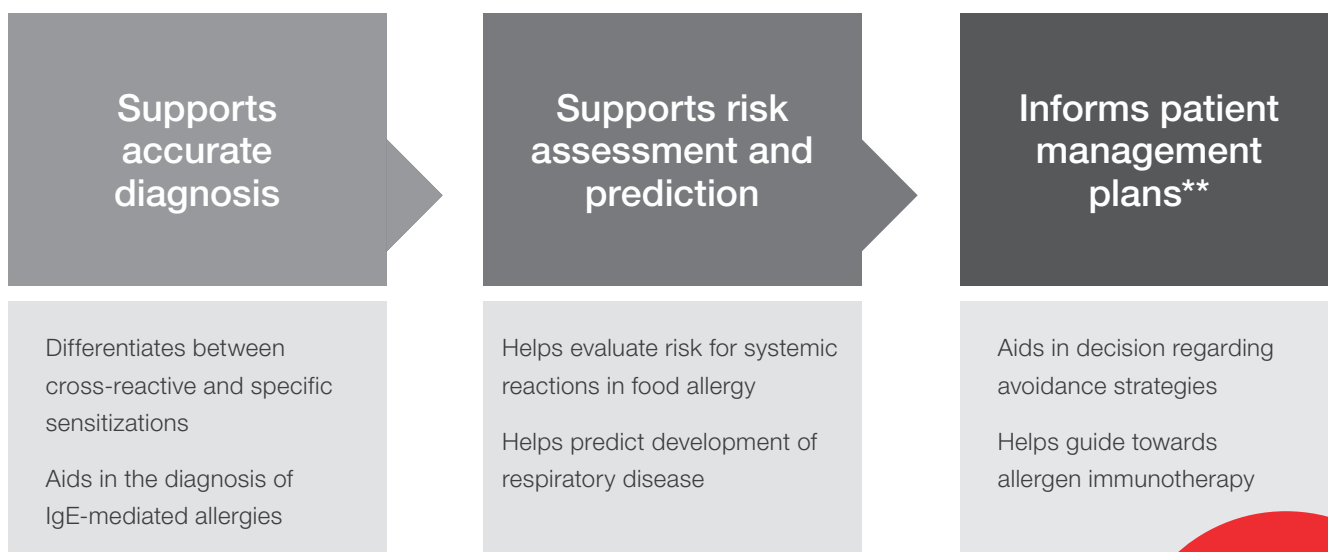
## ... when symptoms are inconsistent with previous test results

A careful selection of relevant allergen components can help decipher inconsistencies with a broad sensitization profile.<sup>1</sup>

## ... when many tests results must be derived from a limited volume of blood

You can get 112 test results in one go and from only 30 µl undiluted serum.<sup>2</sup> Omission of extracts makes CCD blocking and dilution of patient sample superfluous.

## ... and provides unparalleled answers for improved patient management



\* Referred as the 'bottom-up' approach by EAACI

\*\* ImmunoCAP ISAC assay results are semi quantitative. When quantitative results are needed, ImmunoCAP Specific IgE may add value.



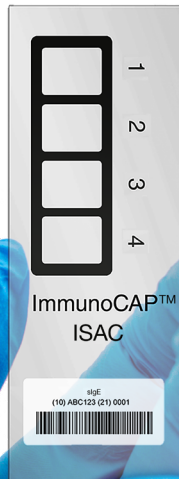
# ImmunoCAP ISAC assay

## More than just a multiplex assay

Finding the real causes of an allergic reaction may require several pieces of information to fit together.

This is especially true when symptoms and case history are inconsistent, the patient is multi-sensitized or shows unsatisfactory response to the treatment.

ImmunoCAP ISAC assay is a multiplex test containing a careful selection of relevant allergen components. It is optimized to measure antibodies against these allergen components: by the omission of whole allergen extract tests and focus on recombinant components, blocking of CCD and the often associated dilution of samples becomes superfluous.<sup>2</sup> Allergen components are contained in triplicates. Thus ImmunoCAP ISAC assay allows a reliable detection of even weak sensitizations.<sup>1</sup>



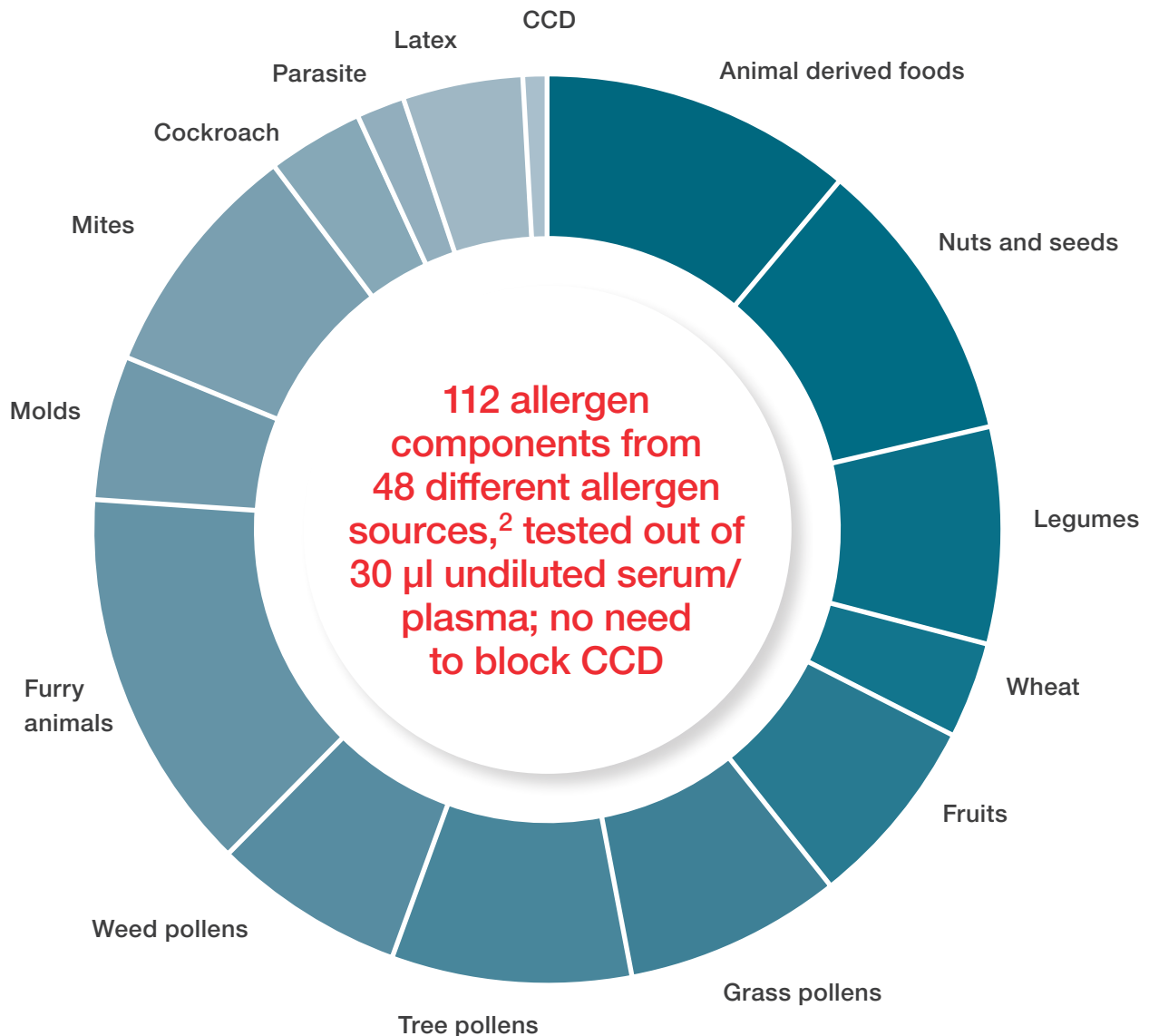
**Clinically  
validated**

# ImmunoCAP ISAC assay

has the power to support the diagnosis of complex, cross-reactive and combination allergies

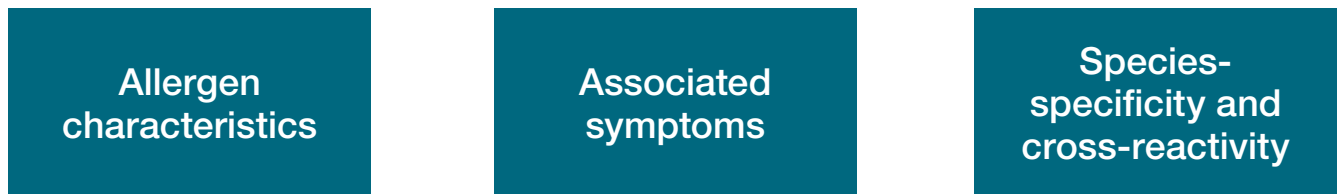
## A relevant combination of documented allergens<sup>1</sup>

ImmunoCAP ISAC assay consists of 112 allergen components from 48 different allergen sources, thoroughly selected based on evidence in literature, for their potential to improve allergy diagnosis, assess risk for systemic reactions and guide patient management.<sup>1, 2</sup>

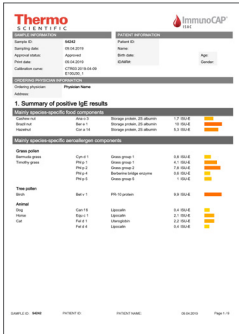




Interpretation of test results is supported by a certified interpretation tool,\* which is installed locally in your laboratory and therefore allows maximum security for your patient data



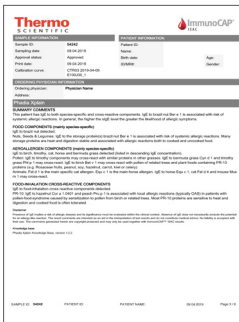
### Visualized results



1. Summary of positive IgE results				
Mainly species-specific food components				
Cashew nut	Ana o 3	Storage protein, 2S albumin	1,7 ISU-E	
Brazil nut	Ber e 1	Storage protein, 2S albumin	10 ISU-E	
Hazelnut	Cor a 14	Storage protein, 2S albumin	5,3 ISU-E	

Cross-reactive components				
PR-10 protein				
Birch	Bet v 1	PR-10 protein	9,9 ISU-E	
Alder	Aln g 1	PR-10 protein	0,8 ISU-E	
Hazelnut	Cor a 1.0401	PR-10 protein	2,4 ISU-E	
Peach	Pru p 1	PR-10 protein	0,4 ISU-E	

### Interpreted results



**Phadia Xplain**

**SUMMARY COMMENTS**  
 This patient has IgE to both species-specific and cross-reactive components. IgE to brazil nut Ber e 1 is associated with risk of systemic allergic reactions. In general, the higher the sIgE level the greater the likelihood of allergic symptoms.

**FOOD COMPONENTS (mainly species-specific)**  
 IgE to brazil nut detected.  
 Nuts, Seeds & Legumes: IgE to the storage protein(s) brazil nut Ber e 1 is associated with risk of systemic allergic reactions. Many storage proteins are heat and digestion stable and associated with allergic reactions both to cooked and uncooked food.

**AEROALLERGEN COMPONENTS (mainly species-specific)**  
 IgE to birch, timothy, cat, horse and bermuda grass detected (listed in descending IgE concentration).  
 Pollen: IgE to timothy components may cross-react with similar proteins in other grasses. IgE to bermuda grass Cyn d 1 and timothy grass Phl p 1 may cross-react. IgE to birch Bet v 1 may cross-react with pollen of related trees and plant foods containing PR-10 proteins (e.g. Rosaceae fruits, peanut, soy, hazelnut, carrot, kiwi or celery).  
 Animals: Fel d 1 is the main specific cat allergen. Equ c 1 is the main horse allergen. IgE to horse Equ c 1, cat Fel d 4 and mouse Mus m 1 may cross-react.

**FOOD-INHALATION CROSS-REACTIVE COMPONENTS**  
 IgE to food-inhalation cross reactive components detected.  
 PR-10: IgE to hazelnut Cor a 1.0401 and peach Pru p 1 is associated with local allergic reactions (typically OAS) in patients with pollen-food-syndrome caused by sensitization to pollen from birch or related trees. Most PR-10 proteins are sensitive to heat and digestion and cooked food is often tolerated.

ImmunoCAP ISAC assay results are presented in a structured report and provide a detailed overview of a patient's primary and cross-reactive sensitizations as well as the clinical implication. This can help you to optimize the patient management plan.

\* Phadia™ Xplain software. Based on results and findings from peer-reviewed literature.



## The ImmunoCAP ISAC assay helps to give unparalleled answers to puzzling allergies

From the manufacturer of the gold-standard IgE blood test.

Optimized to measure relevant sensitizations out of only  
30 µl undiluted serum/plasma.

Contains only allergen components. CCD blocking  
is superfluous.

Result interpretation is supported by a locally installed,  
certified interpretation tool to allow maximum data safety.

#### References

1. Matricardi et al. 27 (2016) PAI (suppl23): 1–250.
2. DFU ImmunoCAP ISAC E112i. 52-5710-EN/01.

Find out more at [thermofisher.com/phadia](https://thermofisher.com/phadia)

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