

INTRODUCING

an even more relevant test profile

Thermo Fisher SCIENTIFIC

Puzzling allergies?
Get unparalleled answers.
ImmunoCAPTM ISAC

Clinically relevant. Clinically validated. Clinically proven.

ImmunoCAP ISAC provides sIgE test results that should be interpreted in the context of clinical history before making a diagnosis.

Setting the standard in allergy diagnostics



The ImmunoCAP family: Complementary tests for various diagnostic needs

ImmunoCAP ISAC

112 allergen components from 48 allergen sources in one go

ImmunoCAP

Allergen components

>100 fully quantitative allergen components

ImmunoCAP

Whole allergens

>500 fully quantitative whole allergens

ImmunoCAP

Rapid

10 common whole allergens in a point-of-care device



Setting the standard in allergy diagnostics

ImmunoCAP"

ImmunoCAP ISAC gives unparalleled answers to puzzling allergies

Clinically relevant.

Powerful combination of assay performance¹, documented relevance of allergens² and interpretation support to aid diagnosis of allergy

Clinically validated.

Evaluated in over 260 peer-reviewed publications³

Robust performance, good reproducibility and low variation demonstrated in a global validation study¹

Clinically proven.

Over 12 years of experience from clinical practice



^{3.} Thermo Fisher Scientific compiled list of publications. 20190520.



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Setting the standard in allergy diagnostics



ImmunoCAP ISAC helps solve puzzling allergies from a drop of blood

Symptoms indicate multi-sensitization or broad cross-reactivity

Provides a quick & comprehensive sensitization profile

→ Differentiate between cross-reactivity and true co-sensitization

Inconsistency
between
symptoms and
previous test
results

Decipher inconsistencies using a broader sensitization profile

→ Help rule in or rule out IgE mediated allergy

Many test results needed from limited volume of blood

Get all the results in one go and from only 30 µl serum

→ Avoids inconvenient repeat visits and uncomfortable tests

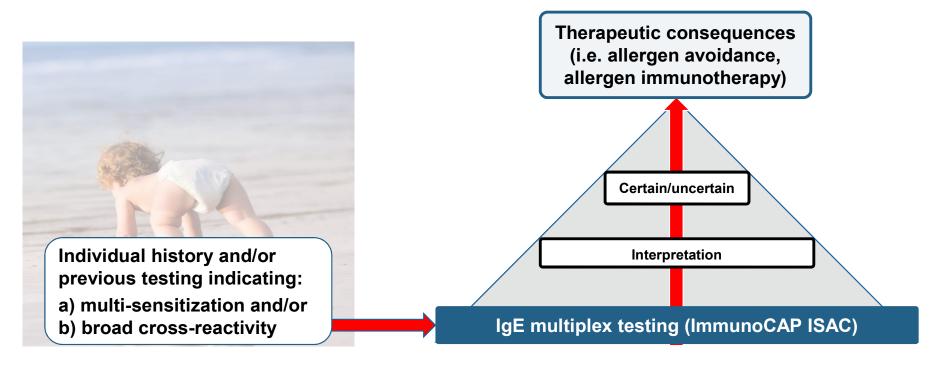


Setting the standard in allergy diagnostics



Bottom-up approach using multiplex testing

Starting with a multiplex test (ImmunoCAP ISAC), may reduce time to diagnosis and save costs





Setting the standard in allergy diagnostics

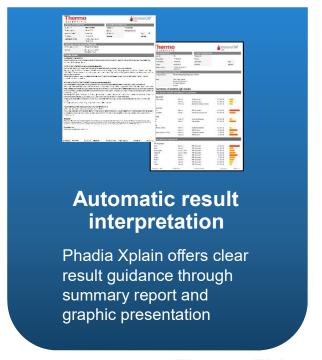


ImmunoCAP ISAC: More than just a multiplex test

A comprehensive sensitization profile, automatically interpreted – ready to support clinical decision-making









Setting the standard in allergy diagnostics

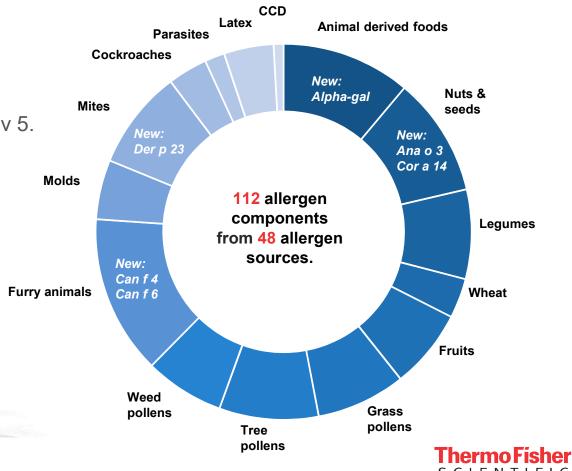


ImmunoCAP ISAC_{E112i} Clinically relevant allergen panel

Removed allergen components:

Pla a 2, Jug r 2, Api m 1, Api m 4, Pol d 5, Ves v 5.

Designed to address food, respiratory and occupational allergies



Setting the standard in allergy diagnostics



New ImmunoCAP ISAC_{E112i} helps clinicians diagnose more patients with greater precision

NOW

with an even more relevant test profile

New risk markers for food-induced systemic reactions



Ana o 3: Main allergen* in cashew nut allergy and a risk marker for systemic reactions^{1,2}

Over 90% of cashew nut-allergic children are sensitized^{1,2}

Surrogate marker for pistachio allergy²



Cor a 14:
Primary allergen* in hazelnut allergy with the highest diagnostic specificity³⁻⁵

Over 80% of hazelnut-allergic children are sensitized³⁻⁵



Alpha-Gal: Risk marker for red meat allergy^{6,7}

Sensitization may cause delayed systemic reactions after intake of red meat, offal, gelatin or dairy products⁶⁻⁸



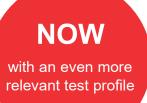
^{*}Storage protein (2S albumin) that is heat and digestion stable and highly abundant in the nut

^{1.} Lange et al Allergy, 72 (2017) 598–603. 2. Savvatianos et al. J Allergy Clin Immunol, 136 (2015)192-193. 3. Beyer et al. Allergy, 70 (2015) 90–98. 4. Buyuktiryaki et al J Allergy Clin Immunol, 123 (2016) 265-72. 5. Eller et al. Allergy, 71 (2016) 556-562. 6. Commins et al. J Allergy Clin Immunol, 123 (2009) 426-433. 7. Commins et al. J Allergy Clin Immunol, 134 (2014) 108-115 8. Matricardi et al 27 (2016) PAI (suppl23):1–250.

Setting the standard in allergy diagnostics



New ImmunoCAP ISAC_{E112i} helps clinicians diagnose more patients with greater precision



New respiratory allergens and asthma severity markers



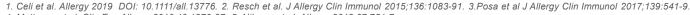
Der p 23: Early marker of house dust mite allergy associated with asthma¹⁻³

- **4-6%** of patients are mono-sensitized¹⁻³
- Can be underrepresented in AIT extracts, potentially leading to lower efficacy¹⁻³



Can f 4 & Can f 6: Fill the diagnostic gap and contribute to better resolution of pet allergies^{4,5}

• **Up to 35%** of dog-allergic patients are sensitized to Can f 4⁴ and **approx. 55%** to Can f 6⁵



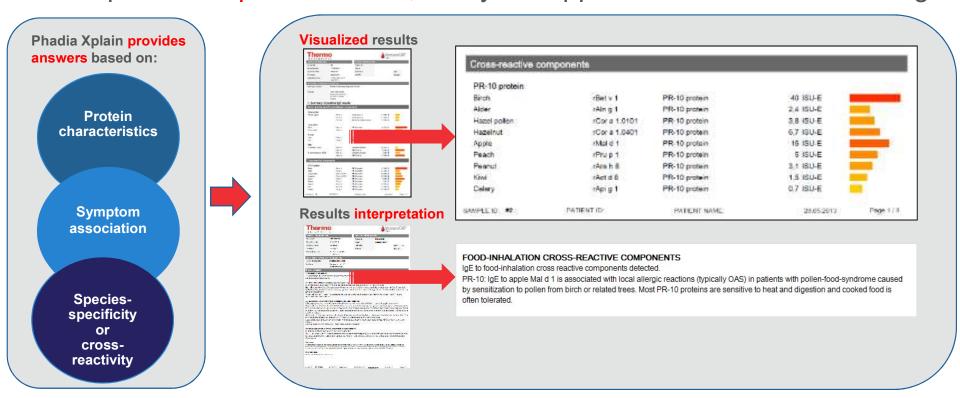
4. Mattsson et al. Clin Exp Allergy 2010;40:1276-87. 5. Nilsson et al. Allergy 2012;67:751-7.



Setting the standard in allergy diagnostics



PhadiaTM Xplain: Interpreted results, ready to support clinical decision-making



• Based on solid evidence from peer-reviewed literature.



Setting the standard in allergy diagnostics



ImmunoCAP ISAC provides guidance for patient management

Accurate diagnosis

Assess and predict risk

Guide patient management*

Differentiates between cross-reactive and specific sensitizations

Helps rule in or rule out IgE-mediated allergies

Helps evaluate risk for systemic reactions in food allergy

Aid to predict development of respiratory disease

Aid in deciding on avoidance strategies

Helps guide towards allergen immunotherapy

*ImmunoCAP ISAC results are semi-quantitative. When quantitative results are needed, ImmunoCAP slgE may be considered.



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Thank you



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What is ImmunoCAP ISAC?

ImmunoCAP ISAC is the clinically proven solution for addressing unresolved and multi-allergic symptoms, identifying species specificity, cross-reactivity and co-sensitizations.

It is highly effective when the patient's many sensitizations are best tested simultaneously against a panel of allergen components.



Setting the standard in allergy diagnostics



Traditional top-down diagnostic approach for broader groups of patients with allergy-like symptoms

Individual history (clinical symptoms?)
Examination (clinical findings?)

SPT and/or IgE test

2nd IgE testing (selected molecules, CRD)

Interpretation

Certain/uncertain

Therapeutic consequences
(i.e. allergen avoidance, allergen immunotherapy)



