



ISAC

Evaluation of IgE against
112 allergenic proteins

SYNLAB 
SOLUTIONS IN DIAGNOSTICS

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Why undergoing this examination?

Allergy is a hypersensitivity reaction to a substance that, when inhaled, ingested, or touched, produces characteristic symptoms. When an allergen first comes into contact with the body of an allergic individual, the immune system responds by producing a large quantity of IgE antibodies through a process called sensitization.

Subsequent exposures of the individual to the same allergen will result in the release of chemical mediators, particularly histamine, which will produce the characteristic symptoms of the allergic reaction. These reactions, in turn, can manifest in different ways, and both the symptoms and

What is the exam?

The **ISAC Test** (Immuno Solid-Phase Allergen Chip) involves the simultaneous determination of specific IgE antibodies for 112 allergenic proteins present in more than 50 different allergens, from a single blood sample (plasma or serum). The analysis allows obtaining an individual sensitization profile, and the results are classified into four categories: undetectable reaction, low, moderate-high, and very high. The ISAC Test helps in directing diagnosis and prognosis, enabling personalized treatment.

For whom is it indicated?

- Individuals in whom there is no correlation between the positivity of conventional allergy tests and symptoms;
- Complex cases with an unsatisfactory response to treatment;
- Evaluate patients with idiopathic anaphylaxis;
- Detection suspicious and unsuspected sensitizations.

Technology

ImmunoCAP – Microarray methodology.

Advantages

SYNLAB GROUP

Guaranteed by the experience of the absolute European leader in laboratory diagnostics.

COMPLETE

- Simultaneous detection of antibodies (IgE) to foods, plants, animals, insects, molds, and synthetic products (latex);
- Each allergen is analyzed in triplicate.

Extra Information

DOCUMENTATION – Available on the SYNLAB Direct for clients

- Informed consent;
- Clinical questionnaire;
- Medical request.

PREPARATION

- Requires 4 hours of fasting.



Delivery Time

20 business days



Sample Type

5 mL of whole blood in EDTA
or
3 mL of serum

Additional Information

Species-specific food components		
Peanut	Egg white	Soy
Sesame seed	Egg yolk	Wheat
Cashew nut	Chicken meat	Kiwi
Brazil nut	Cow's milk	Shrimp
Buckwheat	Codfish	Ha zelnut
	Alpha-gal	Walnut
Species-specific aeroallergen components		
Pollen from weeds:	Tree Pollen:	Grass Pollen:
St. John's Wort	Birch	Bermuda grass
Artemisia	Cypress	Timothy grass
Lamb's quarters	Plane tree	
Pellitory	Japanese cedar	
Plantain	Olive tree pollen	Cockroach
Salsola		
Molds:	Animal:	Mites:
Alternaria	Dog	B. tropicalis (HDM - House Dust Mite)
Aspergillus	Horse	D. farinae (HDM)
Cladosporium	Cat	D. pteronyssinus (HDM)
	Mouse	L. destructor (storage mite)
Other species-specific components		
Venoms	Parasites	Latex
Bee	Anisakis	
Paper wasp		
Common wasp		
Cross-reactivity marker components		
Serum albumin	Protein PR-10	Lipid transfer protein (nsLTP)
Dog	Birch	Peanut
Horse	Alder	Hazelnut
Cat	Hazelnut pollen	Walnut
Milk	Hazelnut	Peach
Beef	Apple	Artemisia
	Peach	Olive tree pollen
	Soy	Plane tree
	Peanut	
Polcalcin	Kiwi	Profilin
Birch	Celery	Birch
Timothy grass		Latex
Tropomyosin	Cross-reactive carbohydrate determinants (CCD)	Mercurial
Anisakis		Timothy grass
Cockroach		
D. pteronyssinus (HDM - House Dust Mite)	Traumatizin-like protein	
Shrimp	Kiwi	