

TREE NUT ALLERGEN

Helping you provide better patient care

Now Available from LabCorp — Advances in Tree Nut sIgE Testing

Measurement of specific immunoglobulin E (sIgE) to individual molecular components of an allergen is referred to as molecular-based allergy diagnostics, or component-resolved diagnostics (CRD). This approach represents an improvement over traditional measurement of IgE to allergen extracts, which analyzes a mixture of proteins in the whole allergen source and provides a single composite, allergen-specific IgE antibody result. CRD may assist physicians in identifying patients who are at higher risk for systemic allergic reactions versus those who are sensitized, but clinically tolerant.¹

CRD may also assist in identifying patients who are at risk for more severe reactions and those who may likely have milder symptoms. Within the context of a patient's clinical history, CRD may help^{1,2}:

- Distinguish between a genuine, primary allergy, and allergic reactions due to cross-reactivity
- Improve risk assessment
- Improve overall patient management

604764 Allergen Profile, Nut, IgE With Component Reflexes*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test
Specimen Requirement: 3 mL serum (room temperature)

Almond	Hazelnut (Filbert)	Pecan
Brazil Nut	Macadamia Nut	Pistachio
Cashew Nut	Peanut (Whole)	Walnut

If IgE to Brazil nut, cashew nut, hazelnut (filbert), peanut (whole), and/or walnut is ≥ 0.10 kU/L, reflex testing will be completed as follows: Brazil nut: Ber e 1 / cashew nut: Ana o 3 / hazelnut (filbert): Cor a 1, Cor a 8, Cor a 9, and Cor a 14 / peanut (whole): Ara h 1, Ara h 2, Ara h 3, Ara h 6, Ara h 8, and Ara h 9 / walnut: Jug r 1 and Jug r 3

603972 Allergen Profile, Brazil Nut, IgE With Component Reflexes*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test
Specimen Requirement: 1 mL serum (room temperature)

Brazil Nut

If Brazil nut IgE is ≥ 0.10 kU/L, then reflex testing is completed for Ber e 1.

604159 Allergen Profile, Cashew Nut, IgE With Component Reflex*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test
Specimen Requirement: 1 mL serum (room temperature)

Cashew Nut

If cashew nut IgE is ≥ 0.10 kU/L, then reflex testing is completed for Ana o 3.

604734 Allergen Profile, Hazelnut, IgE With Component Reflexes*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test
Specimen Requirement: 1 mL serum (room temperature)

Hazelnut

If hazelnut (filbert) IgE is ≥ 0.10 kU/L, then reflex testing is completed for Cor a 1, Cor a 8, Cor a 9, and Cor a 14.

603916 Allergen Profile, Peanut (Whole) IgE With Component Reflexes*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test
Specimen Requirement: 1 mL serum (room temperature)

Peanut (Whole)

If peanut (whole) IgE is ≥ 0.1 kU/L, then reflex testing is completed for Ara h 1, Ara h 2, Ara h 3, Ara h 6, Ara h 8, and Ara h 9.

604600 Allergen Profile, Walnut, IgE With Component Reflex*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test
Specimen Requirement: 0.6 mL serum (room temperature)

Walnut

If walnut IgE is ≥ 0.10 kU/L, then reflex testing is completed for Jug r 1 and Jug r 3.

Pediatric

604771 Allergen Profile, IgE (Pediatric) With Component Reflexes*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test **Specimen Requirement:** 4 mL serum (room temperature)

Food	Food	Food	Mold	Animal/Dust
Almond	Macadamia Nut	Sesame Seed	<i>Cladosporium herbarum</i>	Cat Dander
Brazil Nut	Milk	Shrimp		Cockroach, German
Cashew Nut	Peanut (Whole)	Soybean		<i>D farinae</i>
Codfish	Pecan	Walnut		<i>D pteronyssinus</i>
Egg White	Pistachio	Wheat		Dog Dander
Hazelnut (Filbert)	Scallop			Mouse Urine

If milk IgE ≥ 0.35 kU/L, reflex tests α -lactalbumin, β -lactoglobulin, and casein will be added.

If egg white IgE ≥ 0.35 kU/L, reflex tests ovalbumin and ovomucoid will be added.

If IgE to Brazil nut, cashew nut, hazelnut (filbert), peanut (whole), and/or walnut is 0.10 kU/L, reflex testing will be completed as follows:

Brazil nut: Ber e 1 / cashew nut: Ana o 3 / hazelnut (filbert): Cor a 1, Cor a 8, Cor a 9, and Cor a 14 / peanut (whole): Ara h 1, Ara h 2, Ara h 3, Ara h 6, Ara h 8, and Ara h 9 / walnut: Jug r 1 and Jug r 3

Food

604783 Allergen Profile, Food IgE II With Component Reflexes*

Method: Thermo Fisher ImmunoCAP® Allergen-specific IgE test **Specimen Requirement:** 4 mL serum (room temperature)

Almond	Codfish	Macadamia Nut	Pistachio	Soybean
Brazil Nut	Corn	Milk	Scallop	Walnut
Cashew Nut	Egg White	Peanut (Whole)	Sesame Seed	Wheat
Clam	Hazelnut (Filbert)	Pecan	Shrimp	

If milk IgE ≥ 0.35 kU/L, reflex tests α -lactalbumin, β -lactoglobulin, and casein will be added.

If egg white IgE ≥ 0.35 kU/L, reflex tests ovalbumin and ovomucoid will be added.

If IgE to Brazil nut, cashew nut, hazelnut (filbert), peanut (whole), and/or walnut is 0.10 kU/L, reflex testing will be completed as follows:

Brazil nut: Ber e 1 / cashew nut: Ana o 3 / hazelnut (filbert): Cor a 1, Cor a 8, Cor a 9, and Cor a 14 / peanut (whole): Ara h 1, Ara h 2, Ara h 3, Ara h 6, Ara h 8, and Ara h 9 / walnut: Jug r 1 and Jug r 3

*If reflex testing is performed, additional charges/CPT code(s) may apply.

References

1. Canonica GW, Ansotegui IJ, Pawankar R et al. A WAO – ARIA- GA2LEN consensus document of molecular-based allergy diagnostics. *World Allergy J* 2013;6:1-17.
2. Hoffman-Sommergruber, K, Pfeifer S, Bublin, M. Applications of Molecular Diagnostic Testing in Food Allergy. *Curr Allergy Asthma Rep* (2015)15:56.

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