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 help1,2:

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

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### Allergen Profile, Nut, IgE With Component Reflexes*

**Method:** Thermo Fisher ImmunoCAP® Allergen-specific IgE test

**Specimen Requirement:** 3 mL serum (room temperature)

<table>
<thead>
<tr>
<th>Allergen</th>
<th>Component Reflexes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almond</td>
<td>Hazelnut (Filbert)</td>
</tr>
<tr>
<td>Brazil Nut</td>
<td>Macadamia Nut</td>
</tr>
<tr>
<td>Cashew Nut</td>
<td>Peanut (Whole)</td>
</tr>
<tr>
<td>Peanut (Whole)</td>
<td>Walnut</td>
</tr>
</tbody>
</table>

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

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

**Method:** Thermo Fisher ImmunoCAP® Allergen-specific IgE test

**Specimen Requirement:** 1 mL serum (room temperature)

<table>
<thead>
<tr>
<th>Brazil Nut</th>
</tr>
</thead>
</table>

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

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

**Method:** Thermo Fisher ImmunoCAP® Allergen-specific IgE test

**Specimen Requirement:** 1 mL serum (room temperature)

<table>
<thead>
<tr>
<th>Cashew Nut</th>
</tr>
</thead>
</table>

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

### Allergen Profile, Hazelnut, IgE With Component Reflexes*

**Method:** Thermo Fisher ImmunoCAP® Allergen-specific IgE test

**Specimen Requirement:** 1 mL serum (room temperature)

<table>
<thead>
<tr>
<th>Hazelnut</th>
</tr>
</thead>
</table>

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
Almond
Brazil Nut
Cashew Nut
Codfish
Egg White
Hazelnut (Filbert)

Mold
Cladosporium herbarum

Animal/Dust
Cat Dander
Cockroach, German
D farinae
D pteronyssinus
Dog Dander
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)

Food
Almond
Brazil Nut
Cashew Nut
Codfish
Corn
Egg White
Hazelnut (Filbert)

Milk
Peanut (Whole)
Scallop

Sesame Seed
Shrimp
Soybean
Walnut
Wheat

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

For detailed information about tests offered by LabCorp, please visit the online test menu at www.labcorp.com/testmenu.