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.

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:

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

Now Available from LabCorp — Advances in Tree Nut sIgE Testing

<table>
<thead>
<tr>
<th>Method</th>
<th>Specimen Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>604764</td>
<td>Thermo Fisher ImmunoCAP® Allergen-specific IgE test</td>
</tr>
<tr>
<td>603972</td>
<td>Thermo Fisher ImmunoCAP® Allergen-specific IgE test</td>
</tr>
<tr>
<td>604159</td>
<td>Thermo Fisher ImmunoCAP® Allergen-specific IgE test</td>
</tr>
<tr>
<td>604734</td>
<td>Thermo Fisher ImmunoCAP® Allergen-specific IgE test</td>
</tr>
</tbody>
</table>

Specimen Requirements:
- **604764 Allergen Profile, Nut, IgE With Component Reflexes**
  - Almond
  - Brazil Nut
  - Cashew Nut
  - Hazelnut
  - Macadamia Nut
  - Pistachio
  - Pecan
  - Peanuts
  - Walnut

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

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

- **604734 Allergen Profile, Hazelnut, IgE With Component Reflexes**
  - Hazelnut

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 8, and Ara h 9, walnut: Jug r 1 and Jug r 3.

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

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

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 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.

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Pediatric

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

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

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

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 8, and Ara h 9  
- Walnut: Jug r 1 and Jug r 3

604783 Allergen Profile, Food IgE II With Component Reflexes*

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

<table>
<thead>
<tr>
<th>Food</th>
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<th>Food</th>
<th>Mold</th>
<th>Animal/Dust</th>
</tr>
</thead>
<tbody>
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<td>Almond</td>
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<td>Macadamia Nut</td>
<td>Pistachio</td>
<td>Soybean</td>
</tr>
<tr>
<td>Brazil Nut</td>
<td>Corn</td>
<td>Milk</td>
<td>Scallop</td>
<td>Walnut</td>
</tr>
<tr>
<td>Cashew Nut</td>
<td>Egg White</td>
<td>Peanut (Whole)</td>
<td>Sesame Seed</td>
<td>Wheat</td>
</tr>
<tr>
<td>Clam</td>
<td>Hazelnut (Filbert)</td>
<td>Pecan</td>
<td>Shrimp</td>
<td></td>
</tr>
</tbody>
</table>

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 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](http://www.labcorp.com/testmenu).