ImmunoCAP Specific IgE blood test

Sonora Quest Laboratories™
A Subsidiary of Laboratory Sciences of Arizona

ImmunoCAP® Peanut Component Testing




ImmunoCAP Peanut Component testing can help determine which proteins affect your patients.

An ImmunoCAP allergen test that detects sensitization to peanut is only the first step in decoding your patient's allergy. ImmunoCAP Peanut Component tests can help you determine the likelihood of a systemic reaction and the necessary precautions that may be prescribed.

Peanut
f 13

High levels of peanut IgE can predict the likelihood of peanut sensitivity, but may not be solely predictive of reactions or allergic response[1]

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Characteristics of Individual Proteins

Ara h 8
f 352

- **LOWER RISK** of systemic reaction[2]
- Risk of mild, localized symptoms, such as itching/tingling of the lips, mouth, and oropharynx[3]
- Cross-reactive with pollens (e.g., birch)

Ara h 9
f 427

- **VARIABLE RISK** of systemic reaction including anaphylaxis[4]
- Often accompanied by sensitization to other peanut proteins[5]
- Cross-reactive with fruits with pits (e.g., peaches)[4]

Ara h 1, 2, 3
f 422, f 423, f 424

- **HIGHER RISK** of systemic reaction including anaphylaxis[6,7]
- Sensitization to Ara h 2 is nearly always associated with clinical peanut allergy[2]

With ImmunoCAP Peanut Component test results, you have more of the information necessary to evaluate your patients' potential risk of systemic reaction, manage dietary modifications and medication, and improve your patients' quality of life.

The results of specific IgE testing can only be fully interpreted in the context of the patient's history of exposure and symptom development and should not be used alone to make a diagnosis.

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Peanut Component Testing

Please submit 0.1 mL refrigerated serum for each allergen and an additional 1.0 mL refrigerated serum if an IgE Serum is part of the panel.

Test Name	Test Code	CPT* Codes	Components (allergens may be ordered individually)
Peanut Component Panel	91681	86008x5	Ara h 2 (f423), Ara h 1 (f422), Ara h 3 (f424), Ara h 9 (f427), and Ara h 8 (f352)
Peanut (f13), IgE w/reflex Components	91747	Screen: 86003 Reflex: 86008x5	Peanut (f13); If Peanut (f13) IgE is ≥0.10 kU/L, Peanut Component Panel [Ara h 2 (f423), Ara h 1 (f422), Ara h 3 (f424), Ara h 9 (f427), and Ara h 8 (f352)] will be performed at an additional charge
Childhood Panel w/reflex Peanut, Egg & Milk Components	91683	Screen: 82785, 86003x16 Peanut Component Reflex: 86008x5 Egg Component Panel Reflex: 86008x2 Milk Component Reflex: 86008x3	*Alternaria alternata* (mold) (m6), Cat Dander (e1), *Cladosporium herbarum* (mold) (m2), Cockroach (i6), Codfish (f3), Cow's Milk (f2), *Dermatophagoides Farinae* (dust mite) (d2), *Dermatophagoides pteronyssinus* (dust mite) (d1), Dog Dander (e5), Egg White (f1), Mouse Urine Protein (e72), Peanut (f13), Shrimp (f24), Soybean (f14), Walnut (f256), Wheat (f4), IgE Serum Peanut (f13); If Peanut (f13) IgE is ≥0.10 kU/L, Peanut Component Panel [Ara h 2 (f423), Ara h 1 (f422), Ara h 3 (f424), Ara h 9 (f427), and Ara h 8 (f352)] will be performed at an additional charge. If Egg White (f1) IgE is ≥0.10 kU/L, Egg Component Panel [Ovomucoid (f233) and Ovalbumin (f232)], will be performed at an additional charge. If Cow's Milk (f2) IgE is ≥0.10 kU/L, Milk Component Panel [Casein (f78), Alpha Lactalbumin (f76), and Beta Lactoglobulin (f77)] will be performed at an additional charge.
Food Panel w/reflex Peanut, Egg & Milk Components	91682	Screen: 86003x15 Peanut Component Reflex: 86008x5 Egg Component Panel Reflex: 86008x2 Milk Component Reflex: 86008x3	Almond (f20), Cashew (f202), Codfish (f3), Cow's Milk (f2), Egg white (f1), Hazelnut (f17), Peanut (f13), Salmon (f41), Scallop (f338), Sesame seed (f10), Shrimp (f24), Soybean (f14), Tuna (f40), Walnut (f256), Wheat (f4) Peanut (f13); If Peanut (f13) IgE is ≥0.10 kU/L, Peanut Component Panel [Ara h 2 (f423), Ara h 1 (f422), Ara h 3 (f424), Ara h 9 (f427), and Ara h 8 (f352)] will be performed at an additional charge. If Egg White (f1) IgE is ≥0.10 kU/L, Egg Component Panel [Ovomucoid (f233) and Ovalbumin (f232)], will be performed at an additional charge. If Cow's Milk (f2) IgE is ≥0.10 kU/L, Milk Component Panel [Casein (f78), Alpha Lactalbumin (f76), and Beta Lactoglobulin (f77)] will be performed at an additional charge.

Individual allergens and additional panels available, please contact your Sonora Quest Laboratories Account Manager or visit SonoraQuest.com for more information.

References

1. Nicolaou N, Poorafshar M, Murray C, et al. Allergy or tolerance in children sensitized to peanut: prevalence and differentiation using component-resolved diagnostics. *J Allergy Clin Immunol.* 2010;125(1):191-197.
2. Asarnoj A, Nilsson C, Lidholm J, et al. Peanut component Ara h 8 sensitization and tolerance to peanut. *J Allergy Clin Immunol.* 2012;130(2):468-472.
3. Mittag D, Akkerdaas J, Ballmer-Weber BK, et al. Ara h 8, a Bet v 1-homologous allergen from peanut, is a major allergen in patients with combined birch pollen and peanut allergy. *J Allergy Clin Immunol.* 2004;114(6):1410-1417.
4. Lauer I, Dueringer N, Pokoj S, et al. The non-specific lipid transfer protein, Ara h 9, is an important allergen in peanut. *Clin Exp Allergy.* 2009;39(9):1427-1437.
5. Movérare R, Ahlstedt S, Bengtsson U, et al. Evaluation of IgE antibodies to recombinant peanut allergens in patients with reported reactions to peanut. *Int Arch Allergy Immunol.* 2011;156(3):282-290.
6. Peeters KA, Koppelman SJ, van Hoffen E, et al. Does skin prick test reactivity to purified allergens correlate with clinical severity of peanut allergy? *Clin Exp Allergy.* 2007;37(1):108-115.
7. Asarnoj A, Movérare R, Östblom E, et al. IgE to peanut allergen components: relation to peanut symptoms and pollen sensitization in 8-year-olds. *Allergy.* 2010;65(9):1189-1195.

*The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payor being billed.