

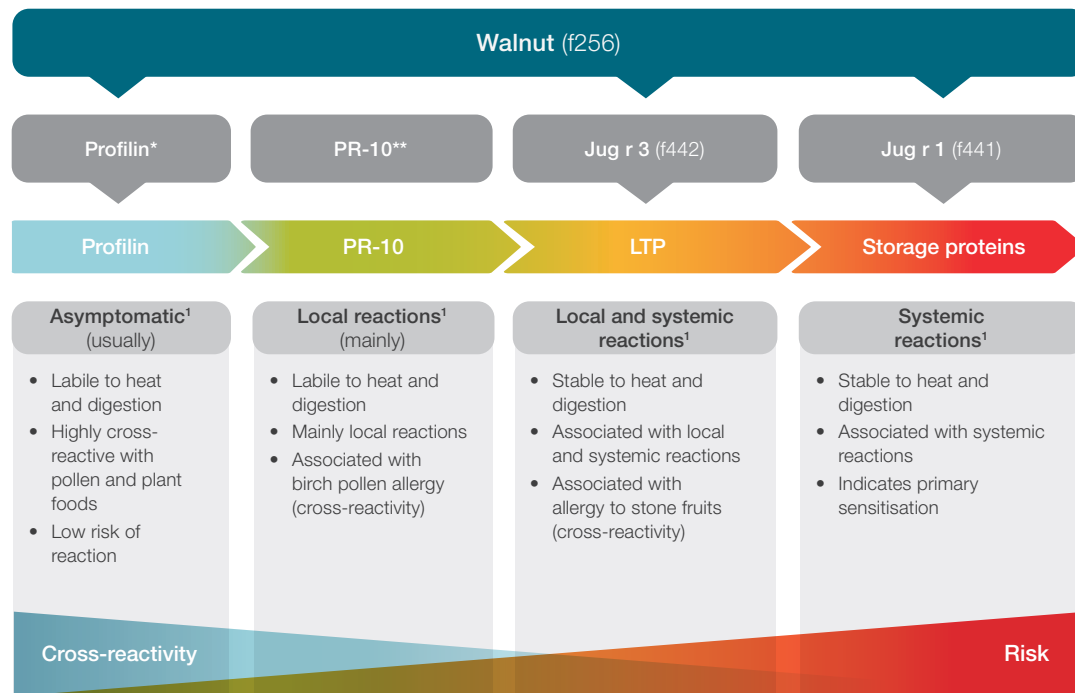
Walnut allergy

ImmunoCAP™ Specific IgE tests

ThermoFisher
SCIENTIFIC

ImmunoCAP™
Whole Allergen












ImmunoCAP™
Allergen Components



Walnut and pecan nut share a **high homology** between proteins, and their allergens are highly cross-reactive. Patients sensitised to pecan nuts very likely to also be sensitised to walnut and vice versa.

Jug r 1 and **Jug r 3** are therefore risk markers for both pecan and walnut allergy.³⁻⁶

* Surrogate markers for profilin: Phl p 12, Bet v 2 or Pru p 4 ** Surrogate markers for PR-10: Bet v 1 or Cor a 1^{1,2}

Walnut (f256)	LTP Jug r 3	Storage protein Jug r 1	Interpreting results*	Management considerations ^{1,3-8}
			 High risk of severe, systemic symptoms^{1,5-8}	<ul style="list-style-type: none"> • Walnut avoidance • Primary sensitisation to walnut • Consider prescription of an adrenaline autoinjector
			 Risk of local and systemic reactions^{1,7,8}	<ul style="list-style-type: none"> • Walnut avoidance • Mixed allergy is possible, including systemic and local symptoms such as oral allergy syndrome (OAS) • The patient may be sensitized to other nsLTPs contained in other plant foods/pollens due to cross-reactions which can cause systemic symptoms in cooked and uncooked foods • Consider prescription of an adrenaline autoinjector
			If all components of the algorithm are negative and f256 is positive, the patient could be sensitised to an untested allergen such as profilins, cross-reactive carbohydrate determinants (CCD) or other allergens. ¹	

* Results should always be interpreted in the context of the clinical history.

References: **1.** Dramburg S, et al. *Pediatr Allergy Immunol.* 2023;34 Suppl 28:e13854. **2.** Chruszcz M, et al. *PLoS ONE* 201813(11): e0208276. **3.** Mew R, et al. *Ped Allergy and Immunol* 2016;27(7):750-752. **4.** Costa J, et al. *Clinical & Experimental Allergy*, 2014 (44) 319–341. **5.** Teuber SS, et al. *J Allergy Clin Immunol* 1998; 101:807–14. **6.** Andorf S, et al. *J Allergy Clin Immunol.* 2017;5(5):1325-1334 **7.** Kleine-Tebbe J, et al. Springer International Publishing Switzerland 2017. ISBN 978-3-319-42499-6 (eBook) **8.** Bradshaw N. *A Clinical Reference Guide to Molecular Allergy. Go Molecular! Part 2: The allergen components* 2021.

Official product names: ImmunoCAP Allergen f256, Walnut; ImmunoCAP Allergen f441, Allergen component rJug r 1, Walnut; ImmunoCAP Allergen f442, Allergen component rJug r 3 LTP, Walnut;

 Learn more at thermofisher.com/allergencomponents

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