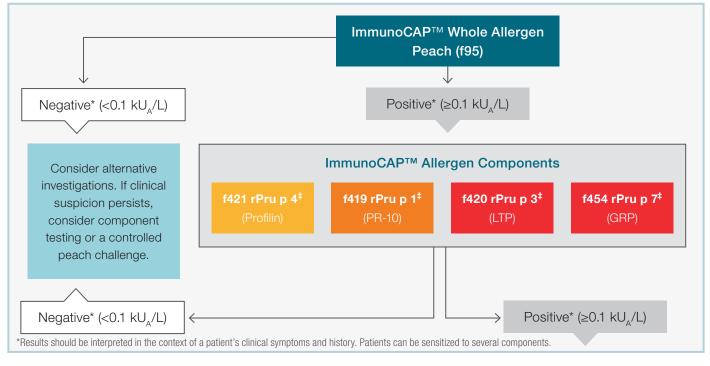
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ImmunoCAP Allergen Peach Test Algorithm

Look deeper with the help of ImmunoCAP Allergen Component tests



Interpreting results

Cross-reaction, rarely associated with clinical symptoms^{1,2,6}

Pru p 4[‡] (Profilin)

Sensitization frequently via grass pollen. May cause reactions, even severe, in a minority of patients.

Management considerations

• Consider further investigations to identify the primary allergen.

Risk of local and in rare cases systemic reactions^{1,2,6}

Pru p 1[‡] (PR-10)

Indication of cross-reactivity to PR-10containing pollens and plant foods.

Management considerations

 In regions where birch is common, consider testing with Bet v 1[‡] (PR-10; t215) to confirm primary birch sensitization.

Risk of severe, systemic symptoms¹⁻⁶

Pru p 7[‡] (GRP) & Pru p 3[‡] (LTP)

Primary sensitization by Cypress pollen possible in Pru p 7 positive patients.^{2,4} Sensitization to five or more LTPs increase the risk of severe reactions in Pru p 3 positive patients.⁵

Management considerations

- Consider testing with Cypress Whole Allergen[‡] (t23, t222) to confirm cypress sensitization if Pru p 7 is positive.
- Consider testing for other LTPs if Pru p 3 is positive.

***Product list:** ImmunoCAP Allergen 195, Peach; ImmunoCAP Allergen 1419, Allergen component rPru p 1 PR-10, Peach; ImmunoCAP Allergen 1420, Allergen component rPru p 3 LTP, Peach; ImmunoCAP Allergen 1421, Allergen component rPru p 4 Profilin, Peach; ImmunoCAP Allergen 1454, Allergen component rPru p 7 Peach; ImmunoCAP Allergen 1215, Allergen component rBet v 1 PR-10, Birch; ImmunoCAP Allergen 123, Italian/Mediterranean/Funeral cypress; ImmunoCAP Allergen 1222, Arizona cypress.

References: 1. Matricardi PM, et al. EAACI Molecular Allergology User's Guide. Pediatric allergy and immunology: official publication of the European Society of Pediatric Allergy and Immunology. 2016;27 Suppl 23:1-250. 2. Kleine-Tebbe J and Jakob T Editors: Molecular Allergy Diagnostics. Innovation for a Better Patient Management. Springer International Publishing Switzerland 2017. ISBN 978-3-319- 42498-9 ISBN 978-3-319-42499-6 (eBook), DOI 10.1007/978-3-319-42499-6. 3. Ehrenberg, A.E., et al., Characterization of a 7 kDa pollen allergen belonging to the gibberellin-regulated protein family from three Cupressaceae species. Clin Exp Allergy 20(4): 526-536. 5. Scala E et al. Lipid transfer protein sensitization: reactivity profiles and clinical risk assessment in an Italian cohort. Allergy 70 (2015) 933–943. 6. Mills C, et al. Plant Food Allergens: John Wiley and Sons Ltd., 2004.



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How ImmunoCAP Peach Allergen Components can help assess the risk of severe reactions

Introducing ImmunoCAP Allergen f454, Allergen Component rPru p 7 Peach

ImmunoCAP Allergen Components – Severity of reaction

f421 rPru p 4 *	f419 rPru p 1 *	f420 rPru p 3 *	f454 rPru p 7 *
(Profilin)	(PR-10)	(LTP)	(GRP)
Local reactions	Local reactions	Local & systemic reactions	Systemic reactions

f421 rPru p 4* (Profilin)^{1,2,6}

- Seldom associated with clinical symptoms. May cause local and even severe reactions in a minority of patients.
- Profilins are sensitive to heat and digestion. Cooked foods are often tolerated.
- Present in all pollens and plant foods, associated with cross-reactions, typically to birch and grass pollen.
- Marker for sensitization to Profilins.

f419 rPru p 1* (PR-10, Bet v 1 homologue)^{1,2,6}

- Frequently associated with local symptoms as oral allergy syndrome. Rarely, in conjunction with co-factors, associated with severe reactions.
- Cross reaction marker between peach and birch pollen.
- Most PR-10 proteins are sensitive to heat and digestion and cooked foods are often tolerated.
- Marker for sensitization to PR-10 proteins in fruits, vegetables and pollen.

f454 rPru p 7* (Gibberillin-regulating Protein)¹⁻⁴

- Marker for severe fruit-induced allergy.
- Cross reaction marker between peach and cypress pollen.
- Found in peel and pulp. Stable to heat and digestion, likely also causing reactions to cooked peaches.
- Marker for sensitization to GRPs in fruits and cypress pollen.

f420 rPru p 3* (Lipid Transfer Protein)^{1,2,5,6}

- Frequently associated to severe reactions as well as oral allergy syndrome.
- High concentration in the peel. LTPs are stable to heat and digestion causing reactions also to cooked peaches.
- Associated with allergic reactions to fruit and vegetables especially in regions where peaches and similar fruits are cultivated.
- Marker for sensitization to LTPs in fruits.



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*Full product names are available on the opposite side

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