

Early summer pollinosis

ImmunoCAP™ Specific IgE tests

ThermoFisher
SCIENTIFIC

Grass pollen cause allergy symptoms in late spring and summer, typically from May to August, but can sometimes be found year-round in warmer climates. Grass pollen season overlaps with weed pollen, such as plantain, in most parts of Europe, but also with tree pollen in southern Europe.¹

ImmunoCAP™
Whole Allergens

Timothy grass (g6)

Plantain (w9)

ImmunoCAP™
Allergen Components

Phl p 1 (g205)
Grass group 1

Phl p 5b (g215)
Grass group 5

Pla l 1 (w234)
Ole e 1 like protein

Primary sensitiser

- Major and specific timothy grass allergens
- More than 90% of patients with sensitisation to grass pollen have IgE to Phl p 1 and/or Phl p 5¹⁻¹⁵
- Indicator for allergen immunotherapy (AIT) suitability

Primary sensitiser

















- Major allergen
- Marker for genuine sensitisation to plantain¹

Cross-reactive allergens

Phl p 7 (g210)
Polcalcin

Phl p 12 (g212)
Profilin

- Often minor allergens which may not be available in sufficient amount in the AIT extract.⁷
- Sensitisation to minor allergens such as Phl p 7 in addition to major components indicates more complex sensitisation profiles and has been associated with more severe symptoms and longer duration of disease.⁷

Whole extract Timothy grass / Plantain	Primary sensitisers Phl p 1 / Phl p 5b	Cross-reactive allergens Phl p 7 [#] / Phl p 12 [#]	Primary sensitiser Pla l 1	Interpreting results*	Management considerations
				<ul style="list-style-type: none"> Primary timothy grass sensitisation is likely Sensitisation to Phl p 1 usually precedes other grass pollen component sensitisation in the development of rhinitis symptoms¹⁻¹⁵ 	<ul style="list-style-type: none"> Consider prescription of AIT Grass pollen exposure reduction Targeted antihistamines around Timothy grass pollen season¹⁻¹⁵
				<ul style="list-style-type: none"> Primary sensitisation to plantain is likely¹ 	<ul style="list-style-type: none"> Consider prescription of AIT Weed pollen exposure reduction Targeted antihistamines around plantain pollen season¹
				<ul style="list-style-type: none"> Sensitisation to cross-reactive minor allergens⁷⁻¹⁵ Primary sensitiser should be identified 	<ul style="list-style-type: none"> Consider further investigations to identify the primary allergen Grass pollen exposure reduction Consider targeted antihistamines around grass pollen season⁷⁻¹⁵
				If all components of the algorithm are negative and g6/w9 is positive, the patient could be sensitised to an untested allergen. As such, in the context of clinical history, exposure reduction may still be recommended. ¹	

* Results should always be interpreted in the context of the clinical history. # Profilin (Bet v 2, Phl p 12) and polcalcin (Bet v 4, Phl p 7) from birch and Timothy grass can be used as marker for almost all pollen due to structural similarity.¹⁶

References: 1. Dramburg S, et al. *Pediatr Allergy Immunol* 2023;34(Suppl 28):e13854. 2. Barber D, et al. *Allergy* 2008;63(11):1550–1558. 3. Fuentes E, et al. *J Allergy Clin Immunol* 2023. 4. Barreto, et al. *Front. Allergy, Sec. Allergy Diagnosis* 2023. 5. Sekerkova A, et al. *Allergol Int* 2012;61(2):339–346. 6. Tripodi S, et al. *J Allergy Clin Immunol* 2012;129(3): 834–839 e8. 7. Cipriani F, et al. *Allergy* 2017. 8. Hauser M, et al. *Allergy Asthma Clin Immunol* 2010;6(1):1. 9. Schmid-Grendelmeier P. *Der Hautarzt* 2010;61(11):946–953. 10. Focke M, et al. *Clin Exp Allergy* 2008;38(8):1400–1408. 11. Almeida, et al. *Allergologia et Immunopathologia* 2019; Volume 47, Issue 6. 12. Valenta R, et al. *J Investig Allergol Clin Immunol* 2007;17 Suppl 1:36–40. 13. Canonica GW, et al. *World Allergy Organization Journal* 2013;6(1):17. 14. Asero R, et al. *Eur Ann Allergy Clin Immunol* 2012;44(5):183–187. 15. Kleine-Tebbe J and Jakob T. *Springer International Publishing Switzerland* 2017. 16. Akdis CA, Agache I (Eds.) *Global atlas of allergy* 2014.

Official product names: ImmunoCAP Allergen g6, Timothy grass; ImmunoCAP Allergen g205, Allergen component rPhl p 1, Timothy; ImmunoCAP Allergen g215, Allergen component rPhl p 5b, Timothy; ImmunoCAP Allergen g210, Allergen component rPhl p 7 Polcalin, Timothy; ImmunoCAP Allergen g212, Allergen component rPhl p 12 Profilin, Timothy; ImmunoCAP Allergen w9, Plantain; ImmunoCAP Allergen w234, Allergen component rPla l 1, Plantain

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