

Application note # C-13080

Fast Separation of Fragrance Allergens using the Avantor® Hichrom HI-WAX Phase

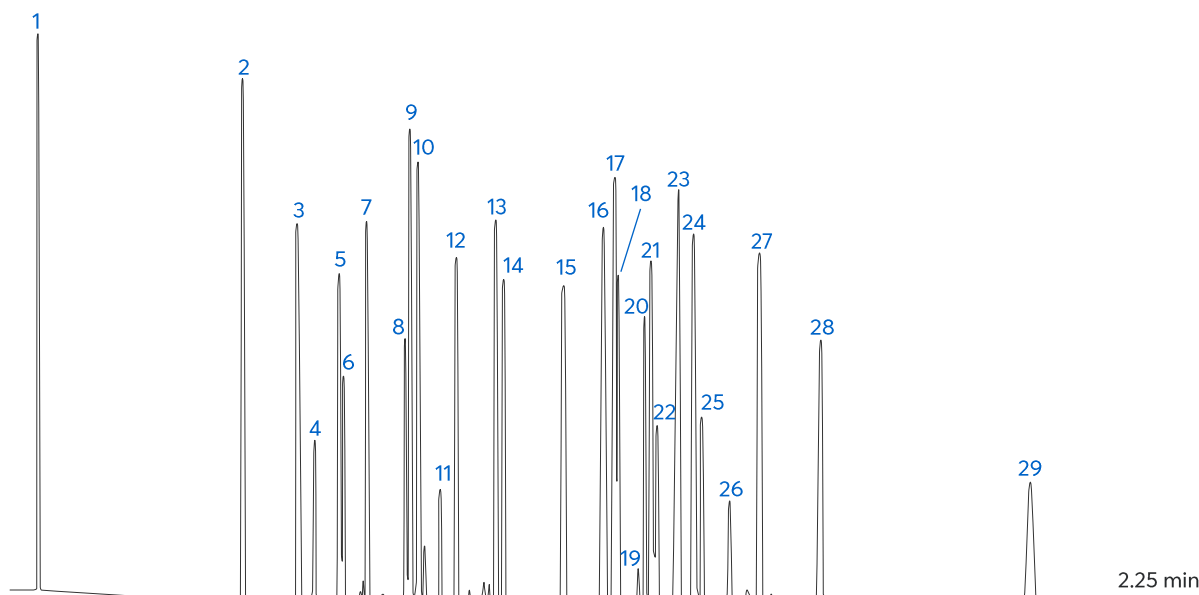


Figure 1: Fast separation of fragrance allergens using the Avantor® Hichrom HI-WAX phase.

Method Details

CONDITIONS

Oven Program:	50 °C (0.1 min), 50 °C/min, 230 °C (2 min)
Carrier Gas:	Hydrogen, 0.5 mL/min
Injector:	Split 230 °C, 0.5 µL, 1:300 split ratio
Detector:	FID, 250 °C
Sample Dilution:	1% in Cyclohexane

The HI-WAX is a high polarity polyethylene glycol (PEG) phase for a wide range of applications such as essential oils, flavours and fragrances, FAMES, aromatic compounds and solvents.

PEAK IDENTIFICATION

1. Limonene	11. Alpha-methyl ionone	21. Hexyl cinnamal
2. Linalool	12. Hydroxycitronellal	22. Hexyl cinnamal 2
3. Methyl 2-octanoate	13. Cinnamal	23. 1-Phenyl-decanone
4. Neral	14. Citronellol	24. Coumarin
5. Veratrol	15. Eugenol	25. Lyrall 2
6. Geranial	16. Amyl cinnamal	26. Unidentified
7. Unidentified	17. Anisole	27. Benzyl benzoate
8. Alpha-isomethyl ionone	18. Cinnamol	28. Benzyl salicylate
9. Geraniol	19. Farnesol 1	29. Benzyl cinnamate
10. Benzyl alcohol	20. Isoeugenol	

ORDERING TABLE

Product	Details	Dimensions	Part Number
Avantor® Hichrom HI-WAX	FAST GC Column	0.10 mm, 0.10 µm, 5 m	HI09-10-010-5

Acknowledgement: Prof. C.Bicchi, C.Brunelli et al. Università di Torino, Dipartimento di Scienza e Tecnologia del Farmaco, Via Pietro Giuria, 9, Torino, Italy.