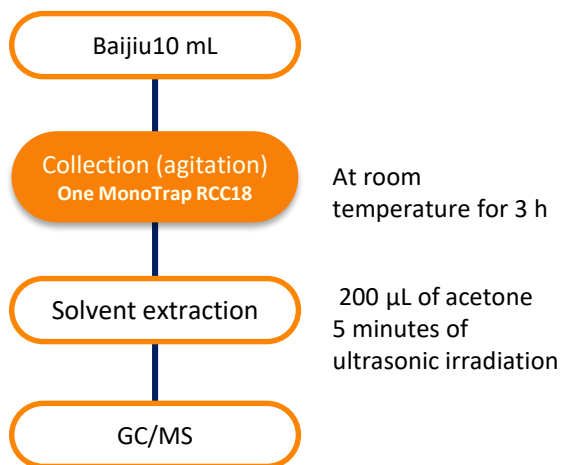


Simple Concentration and Analysis of the Fragrance Component in Baijiu - Using Sorptive Media MonoTrap

Using MonoTrap RCC18 (with activated carbon), a simple enrichment and analysis was made for the flavor components of Baijiu (Chinese liquor). It was also possible to collect aroma compounds from a high-matrix sample with an alcohol content of 40%. Agitation and collection, in which the sample comes into direct contact with the MonoTrap, is particularly useful for collecting components with high-boiling points. Plasticizer was found (peaks #27,28) presumably derived from the plastic cap due to stirring or agitation.

Preliminary processing procedure



GC Conditions

System : GC - MS
Column : InertCap Pure-WAX
 0.25 mm I.D. $\times$ 30 m ϕ = 0.25 μ m
Col. Temp. : 40 $^{\circ}$ C (5 min) - 4 $^{\circ}$ C/min - 250 $^{\circ}$ C
Carrier Gas : He 1 mL/min
Injection : Splitless
 250 $^{\circ}$ C
Detector : MS Scan (m/z : 35-600)
Sample Size : 1 μ L

MonoTrap Series

Cat.No	Description	Configuration	Size	Activated Carbon	Functional Group
1050-72101	MonoTrap DCC18	Disk	O.D.10mm x thick 1mm	Yes	C18
1050-72201	MonoTrap RCC18	Rod	O.D.2.9 mm x I.D.1mm x Height 5mm	Yes	C18
1050-71101	MonoTrap DSC18	Disk	O.D.10mm x thick 1mm	No	C18
1050-71201	MonoTrap RSC18	Rod	O.D.2.9 mm x I.D.1mm x Height 5mm	No	C18



DCC18



RCC18



DSC18

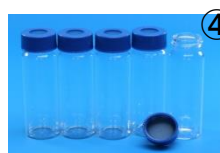


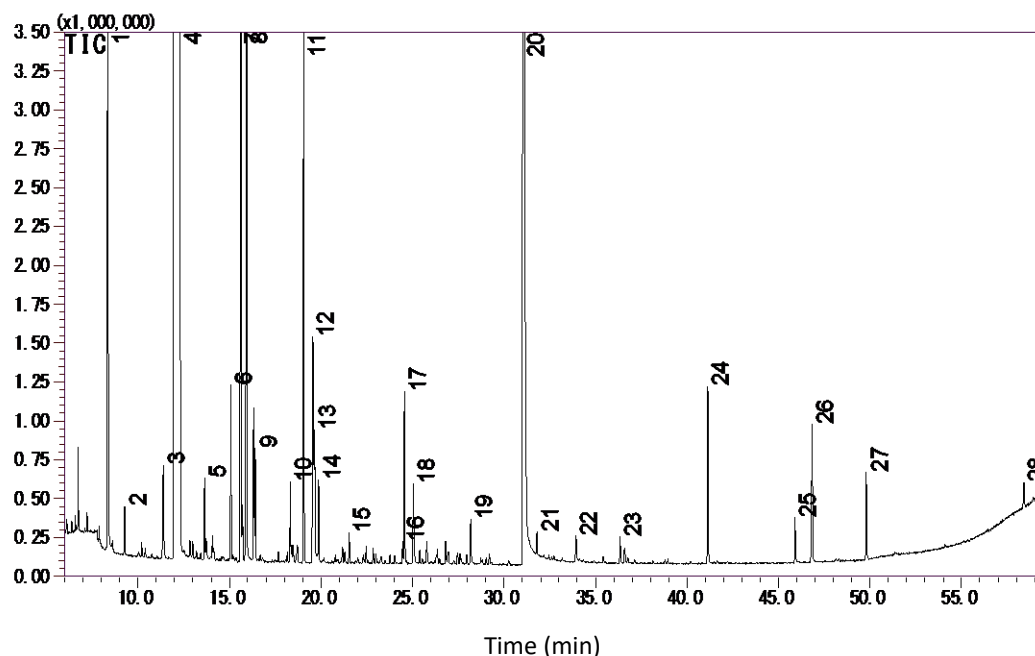
RSC18

Initial use of MonoTrap...

Introduction to the convenient MonoTrap Start UP-KIT

Description	Qty.
① MT Holder	5
② MT Stand	1
③ MT Extract Cup with Vial (20 mL)	5
④ Clean Pin Hole Septum with vial (40mL)	5
⑤ 200 μ L glass insert (flat bottom)	40
⑥ MonoTrap DCC18	20
⑦ MonoTrap RCC18	20
⑧ MonoTrap DSC18	20
⑨ MonoTrap RSC18	20





- | | | |
|----------------------------------|-------------------------|-------------------------------|
| 1. Ethyl pentanoate | 11. Ethyl octoate | 21. Ethyl dihydrocinnamate |
| 2. 1-Butanol | 12. Acetic acid | 22. Heptanoic acid |
| 3. Isopentyl alcohol | 13. Furfural | 23. Ethyl tetradecanoate |
| 4. Ethyl hexanoate | 14. Isopentyl hexanoate | 24. Ethyl hexadecanoate |
| 5. Hex-5-enoic acid, ethyl ester | 15. Pentyl hexanoate | 25. Ethyl Oleate |
| 6. Propyl hexanoate | 16. Octanenitrile | 26. Linoleic acid ethyl ester |
| 7. Ethyl heptanoate | 17. Hexyl hexanoate | *27. Dibutyl phthalate |
| 8. Ethyl laurate | 18. Butanoic acid | *28. Octyl phthalate |
| 9. 1-Hexanol | 19. Pentanoic acid | |
| 10. Butyl hexanoate | 20. Hexanoic acid | |

*According to library search results

*Vermilion character; Baijiu
(Chinese liquor) feature flavor

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