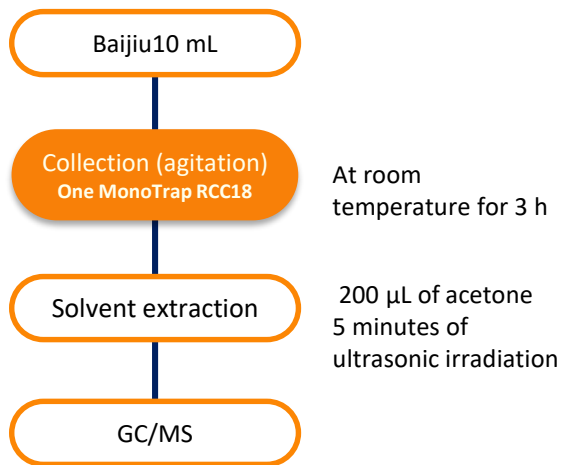


Simple Concentration and Analysis of the Fragrance Component in Baijiu - Using Sorptive Media MonoTrap

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. × 30 m df = 0.25 µm
Col. Temp. : 40 °C (5 min) - 4 °C/min - 250 °C
Carrier Gas : He 1 mL/min
Injection : Splitless
 250 °C
Detector : MS Scan (*m/z* : 35-600)
Sample Size : 1 µL

MonoTrap Series

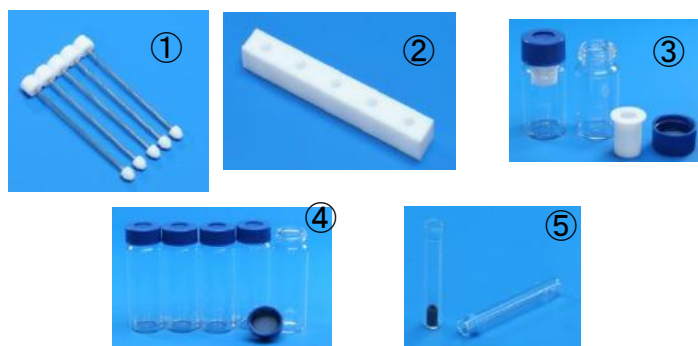
Cat.No	Description	Configuration	Size	Activated Carbon	Functional Group
1050-72101	MonoTrap DCC18	Disk	O.D.10mm x thick 1mm	Yes	C18
1050-72201	MonoTrap RCC18	Rod	O.D.2.9 mm x I.D.1mm x Hight 5mm	Yes	C18
1050-71101	MonoTrap DSC18	Disk	O.D.10mm x thick 1mm	No	C18
1050-71201	MonoTrap RSC18	Rod	O.D.2.9 mm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

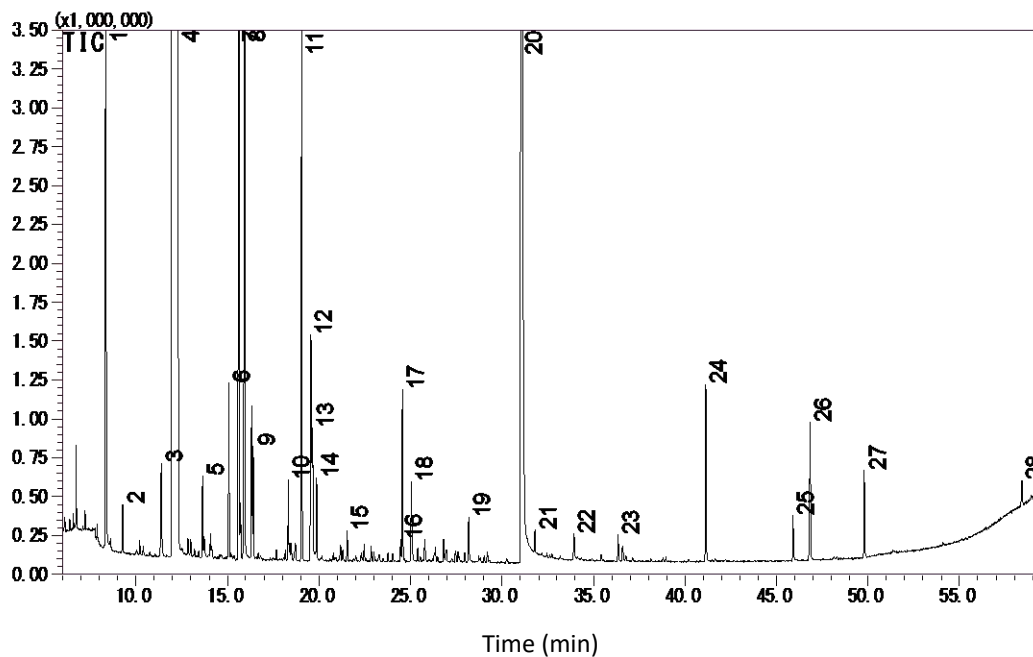


Initial use of MonoTrap...

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 µL 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

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

GL Sciences, Inc. Japan

22-1 Nishishinjuku 6-Chome
Shinjuku-ku, Tokyo,
163-1130, Japan
Phone: +81-3-5323-6620
Fax: +81-3-5323-6621
Email: world@glsc.co.jp
Web: www.glsciences.com

GL Sciences B.V.

De Sleutel 9
5652 AS Eindhoven
The Netherlands
Phone: +31 (0)40 254 95 31
Email: info@glsciences.eu
Web: www.glsciences.eu

GL Sciences, Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503
Phone: 310-265-4424
Fax: 310-265-4425
Email: info@glsciencesinc.com
Web: www.glsciencesinc.com

GL Sciences (ShangHai) Ltd.

Tower B, Room 2003,
Far East International Plaza,
NO,317 Xianxia Road,
Changning District.
Shanghai, China P.C. 200032
Phone: +86 (0)21-6278-2272
Email: contact@glsciences.com.cn
Web: www.glsciences.com.cn

International Distributors

Visit our Website at www.glsciences.com/distributors