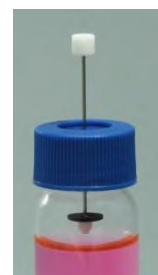
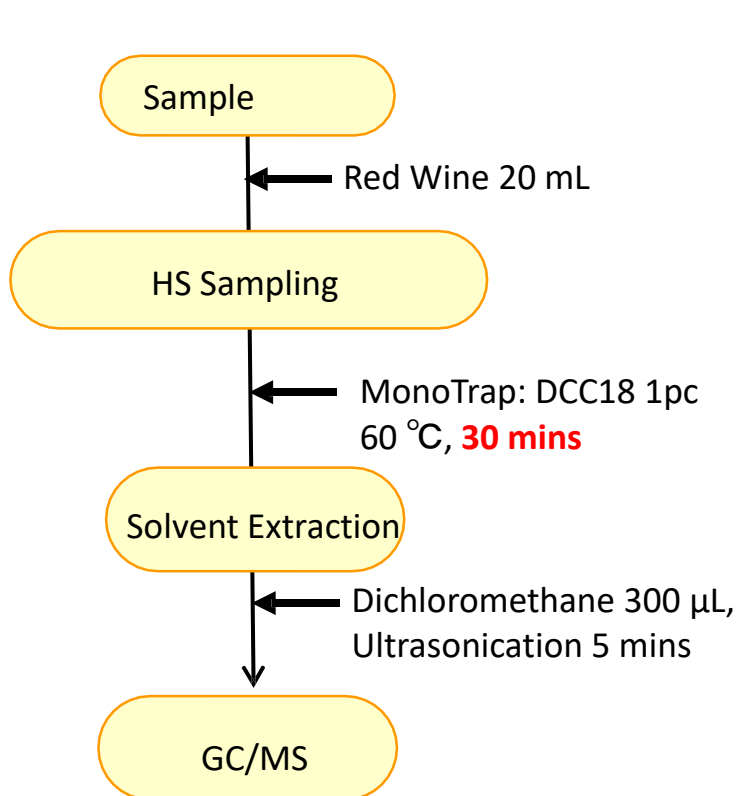


Easy Concentration of Red Wine Fragrance by HS with MonoTrap

MonoTrap is a hybrid novel adsorbent that combines a large surface area and the properties of silica gel, activated carbon, and ODS. Due to the large surface area of porous silica and the adsorption effect caused by the inclusion of activated carbon, a high collection efficiency is obtained. Therefore, high-sensitivity analysis can be performed in a short time. In this study, we used MonoTrap DCC18 (with activated carbon) to perform simple enrichment analyses of the fragrance components of domestic red wines by the HS-method. By warming to 60 °C, we were able to obtain much information by collecting it for as short as 30 minutes, while it was HS analysis. The highly inert WAX-column InertCap Pure-WAX is the optimal column for fragrance components analyses. It is recommended to use this medicine in conjunction with MonoTrap.

Protocol

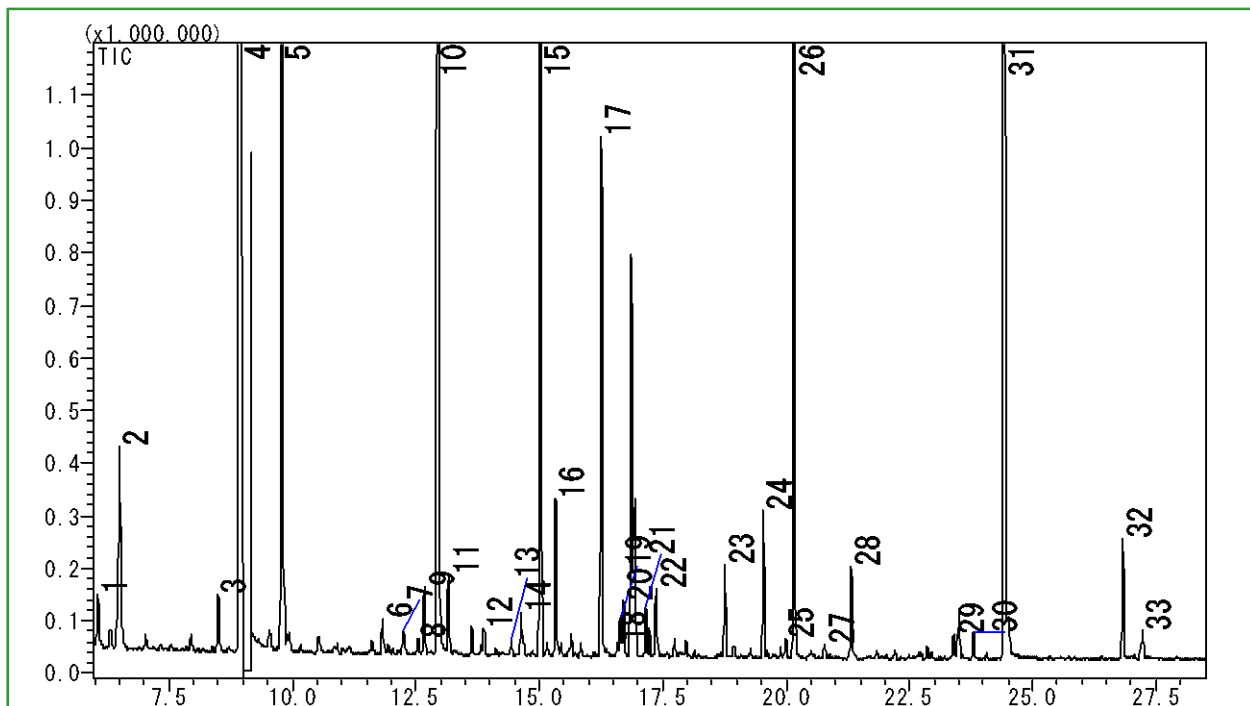


③MT Extract Cup with Vial
(Start UP-Kit)

GC Condition

- System** : SHIMADZU GC-2010、GCMS-QP2010
- Column** : **InertCap Pure-WAX** (Cat.No. 1010-68142)
0.25 mm I.D. × 30 m df=0.25 µm
- Column Temp** : 40 °C (5 min)→6 °C/min→250 °C (5min)
- Carrier Gas** : He 95 kPa
- Injection** : Split /Splitless, 1 µL
250 °C
- Detection** : MS Scan (*m/z*:55-400)

Ultra inert WAX column **InertCap Pure-WAX** is highly recommended to analyze aromatic compounds together with **MonoTrap**



1	2,2,6-Trimethyl-6-vinyltetrahydropyran	18	Benzaldehyde
2	Isoamyl acetate	19	3-Ethyl-4-methylpentanol
3	Limonene	20	2-Bornene
4	1-Pentanol	21	n-Propyl propionate
5	Ethyl hexanoate	22	Ethyl di-2-hydroxycaproate
6	Maleic anhydride	23	β -Cyclocitral
7	3-Methylpentanol	24	Ethyl decanoate
8	1,1-Dimethoxy-2-propanol	25	α -D-Galactopyranose methyl glycoside
9	Ethyl 2-hexenoate	26	Diethyl succinate
10	1-Hexanol	27	3-(Methylthio)-1-propanol
11	cis-3-Hexen-1-ol	28	1,5,8-Trimethyl-1,2-dihydronaphthalene
12	Nonanal	29	Hexanoic acid
13	cis-2-Hexen-1-ol	30	Benzyl Alcohol
14	Ethyl 2-hydroxy-3-methylbutanoate	31	Phenylethyl Alcohol
15	Ethyl octanoate	32	Diethyl di-malate
16	Furfural	33	Octanoic Acid
17	2-Ethyl-1-hexanol		

Red•••[Food] Fragrance Encyclopedia by Japan Perfumery & Flavoring Association

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 (ShangHai) Ltd.

Tower B, Room 2003,
Far East International Plaza,
NO,317 Xianxia Road,
Changning District.
Shanghai, China P.C. 200051
Phone: +86 (0)21-6278-2272
Email: contact@glsciences.com.cn
Web: www.glsciences.com.cn

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

International Distributors

Visit our Website at:

<https://www.glsciences.com/company/distributor.html>