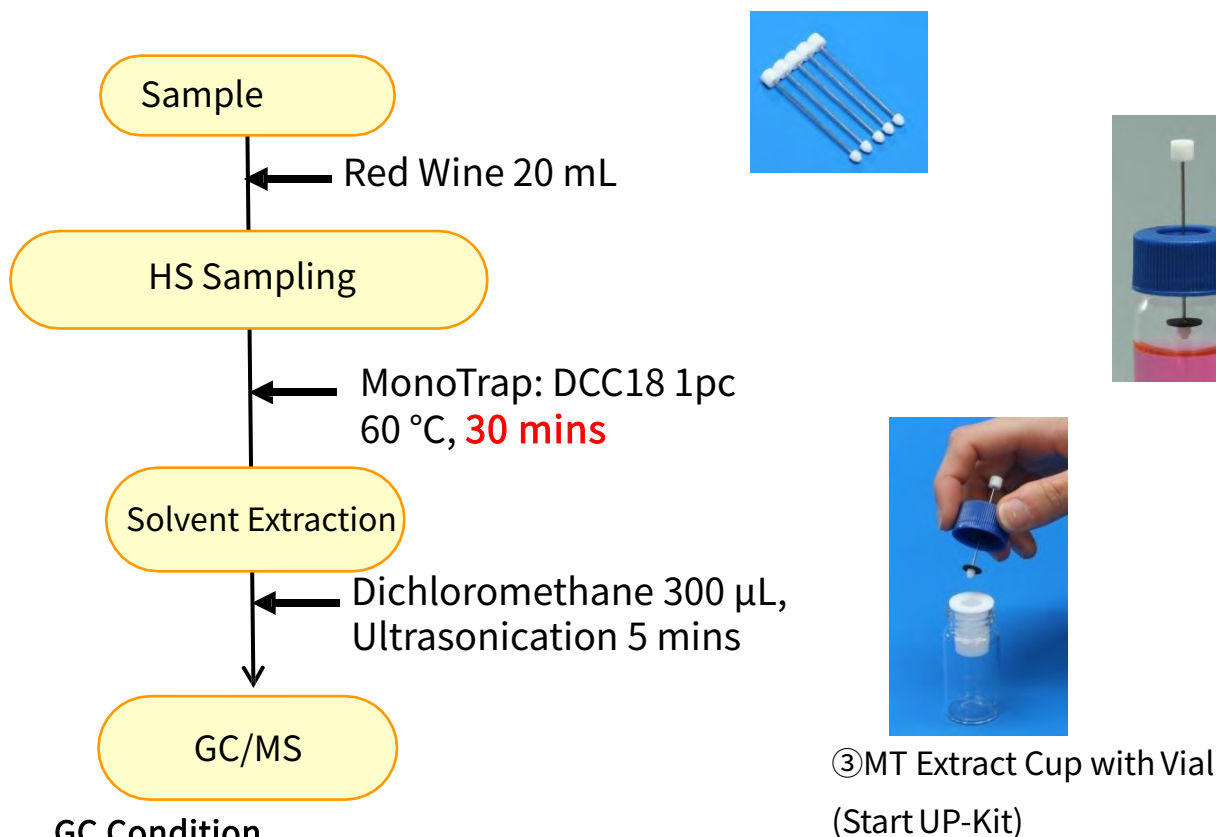


Easy Concentration of Red Wine Fragrance by HS with MonoTrap

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.

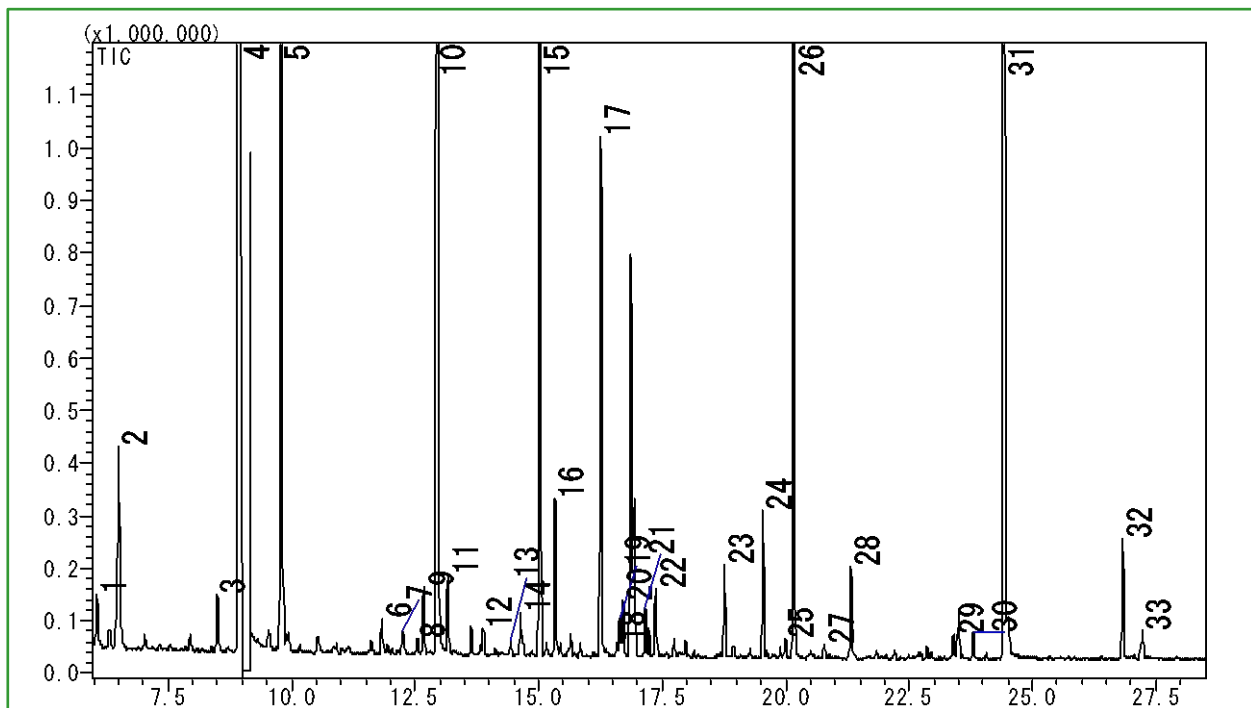
Protocol



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 : He 95 kPa
Gas : Split /Splitless, 1 µL
Injection : 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 dl-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 dl-malate |
| 16 | Furfural | 33 | Octanoic Acid |
| 17 | 2-Ethyl-1-hexanol | | |

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