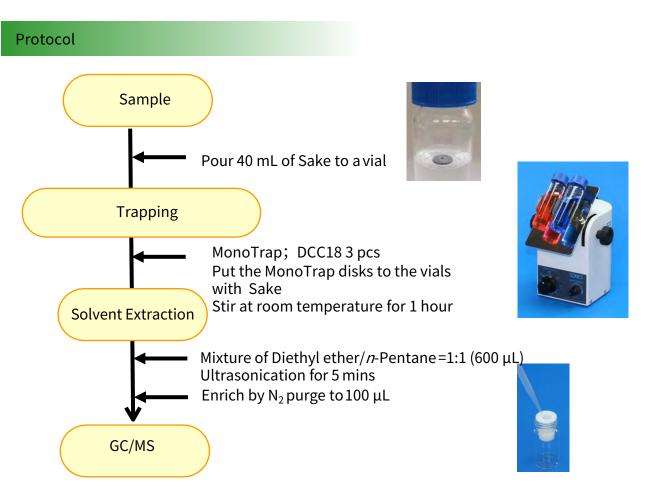


Easy Enrichment of Japanese Rice Wine (Sake) Fragrance with MonoTrap

MonoTrap is a hybrid novel adsorbent that combines large surface area and properties of silica gel, activated carbon, and ODS. In this study, we used MonoTrap DCC18 (with activated carbon) to perform simple enrichment analyses of the fragrance components of Japanese sake. The brand of use is Dai-jinjinzo liquor produced in Yamagata Prefecture. We were able to easily analyze the enrichment by simple operation of placing it in a vial with the sample. Due to the large surface area, high sensitivity of many information was obtained even in solvent extraction, where sample loading is large and dilution is a concern.

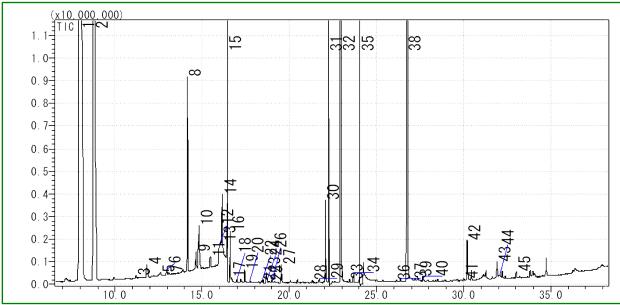


Column : InertCap Pure-WAX 0.25 mm I.D. $\times 30$ m df=0.25 μm

|--|

System	: SHIMADZU GC-2010, GCMS-QP2010		
Column	:InertCap Pure-WAX	Cat.1010-68142	
	0.25 mm I.D.×30 m df=0.25 μm		
Column Temp	:50 °C (5 min)→6 °C/min→250 °C (5 min)		
Carrier Gas	: He 90 kPa		
Injection	:Splitless, 1 μL 250 °C		
Detectio	: MS Scan (<i>m/z;</i> 35-450)		

GL Sciences GC Technical Note



- 1 Isopentyl alcohol
- 2 Ethyl caproate
- 3 2-Heptanol
- 4 Ethyl lactate
- 5 3-Ethoxy-1-propanol
- 6 2-Nonanone
- 7 Nonanal
- 8 Ethyl octanoate
- 9 1-Heptanol
- 10 Acetic acid +Furfural
- 11 2-Ethyl-1-hexanol
- 12 Ethyl Acetate
- 13 Ethyl-3-hydroxybutyrate
- 14 Benzaldehyde
- 15 3-Methoxy-1,2-propanediol
- 16 2,3-Butanediol
- 17 Ethyl 2-hydroxy-4-methylpentanoate
- 18 1-Octanol
- 19 2,3-Butanediol
- 20 Propylene Glycol
- 21 2-Ethyl-1,3-dioxolane
- 22 Butyrolactone

23 Hexanoic acid 24 Ethyl decanoate

- 25 Benzeneacetaldehyde
- 26 2-Propenoic acid
- 27 Diethyl succinate
- 28 β-Citronellol
- 29 Benzeneacetic acid ethyl ester
- 30 3-Hydroxybutanoic acid ethyl ester
- 31 β-Phenethyl acetate
- 32 Hexanoic acid
- 33 Benzyl Alcoho
- 34 Ethyl 3-hydroxytridecanoate
- 35 Phenylethyl Alcohol
- 36 4-Oxononanal
- 37 Isopentyl hexanoate
- 38 Octanoic Acid
- 39 Ethyl 3-hydroxytridecanoate
- 40 Tributyl phosphate
- 41 α-Methylbenzeneethanamine
- 42 n-Decanoic acid
- 43 4-Ethoxy-4-oxobutanoic acid
- 44 Coumaran
- 45 1-Methyldecylamine

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