

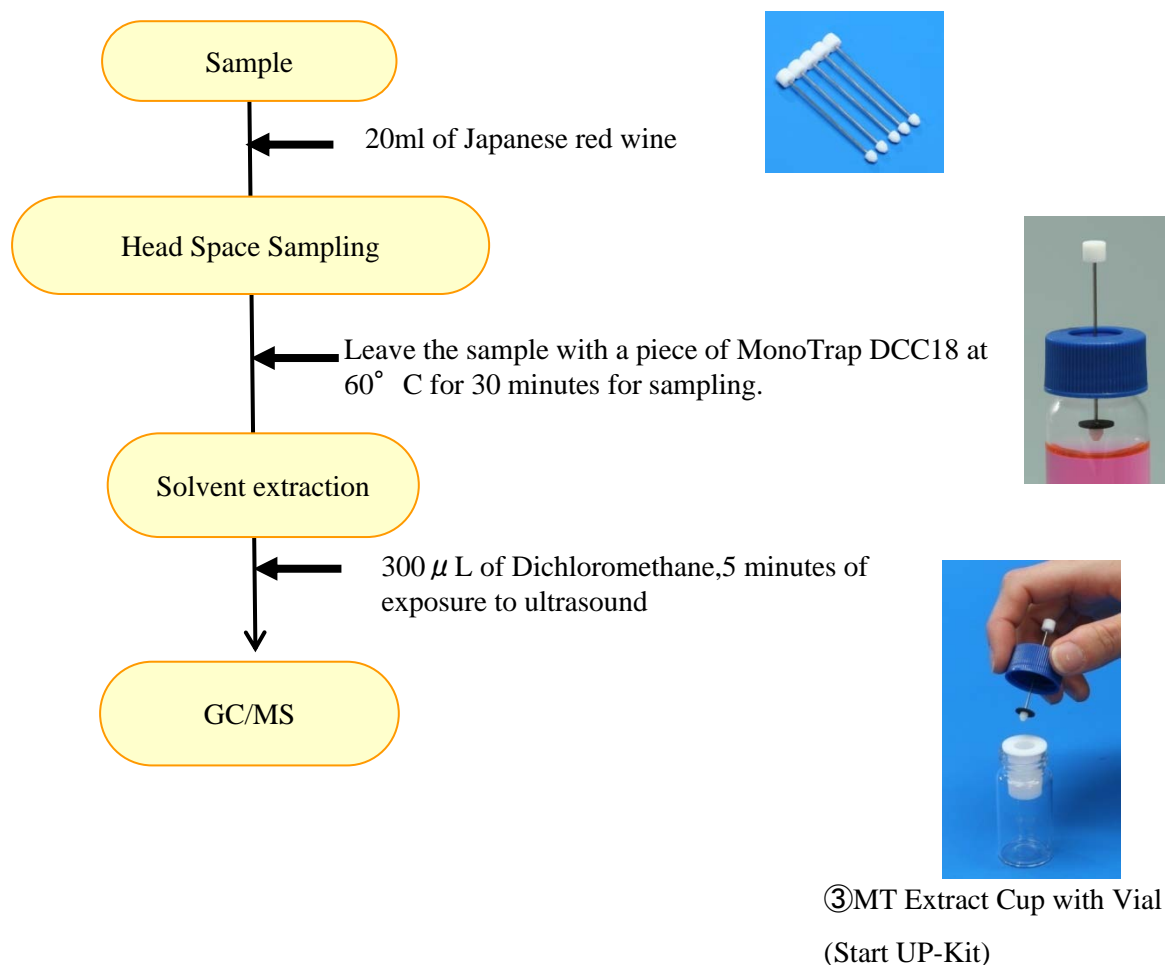
## Simple analysis of the aroma components of Japanese red wine after concentration

MonoTrap™ is a silica-based adsorptive. This product can be characterized by through pour (due to the monolith structure of the silica base) and a large surface (due to the pores within the silica frame). Active carbon is used as an adsorptive on the silica frame surface to which octadecyl (ODS) group has been conjugated.

MonoTrap™ can be viewed as a new hybrid adsorptive having a large surface area and possessing the features of silica gel, active carbon and ODS group.

MonoTrap™ DCC18 (containing activated carbon) was used for the simple analysis of the aroma components of Japanese red wine after concentration using the HS method. Heating the samples to 60°C made it possible to obtain a lot of data from trapping that was performed over the short interval of just 30 minutes.

### Pretreatment procedures



#### GC/MS analysis

**System** : SHIMADZU GC-2010, GCMS-QP2010

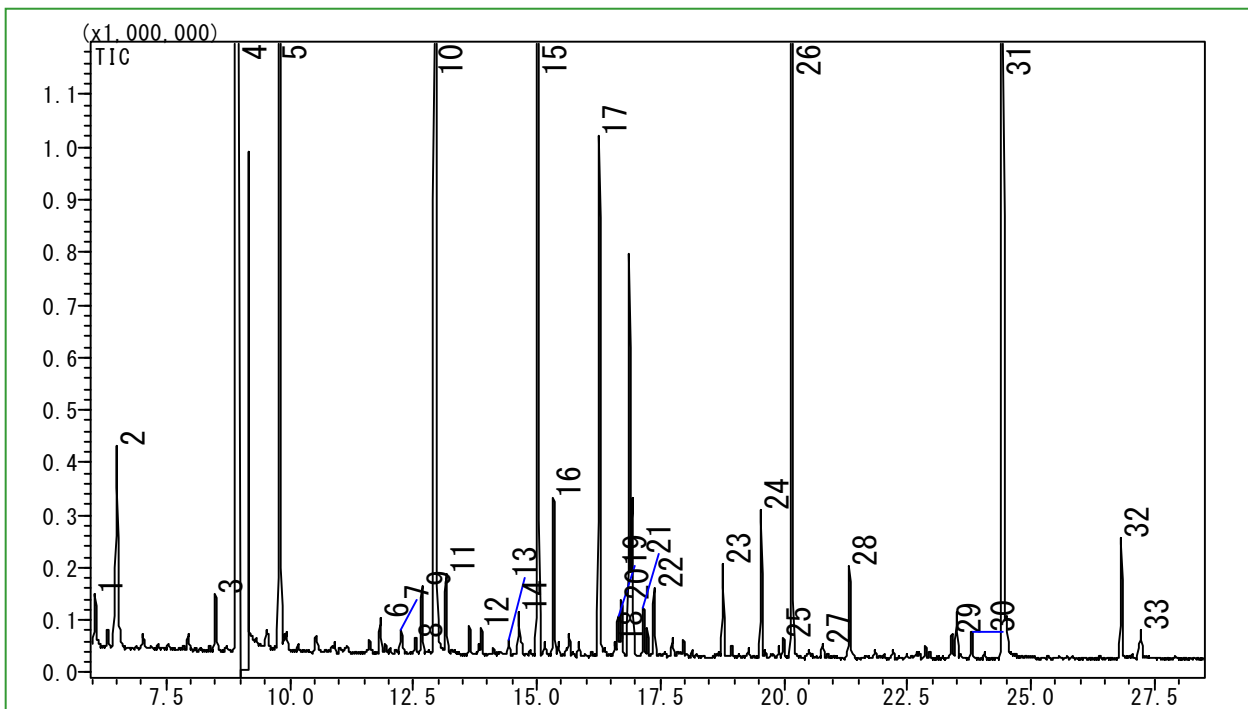
**Column** : InertCap Pure-WAX (Cat.1010-68142) **New!!**  
0.25mm I.D. × 30m df=0.25 µ m

**Column Temp** : 40°C (5min) → 6°C/min → 250°C (5min)

**Carrier Gas** : He 95kPa

**Injection** : Split / Splitless, 1 µ L  
250°C

**Detection** : MS Scan (m/z; 55-400)



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	$\beta$ -Cyclocitral
7	3-Methylpentanol	24	Ethyl decanoate
8	1,1-Dimethoxy-2-propanol	25	$\alpha$ -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		

※Identified with spectral libraries

Red characters •••Referred to Japan Perfumery & Flavoring Association Encyclopedia of Flavor[food]



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