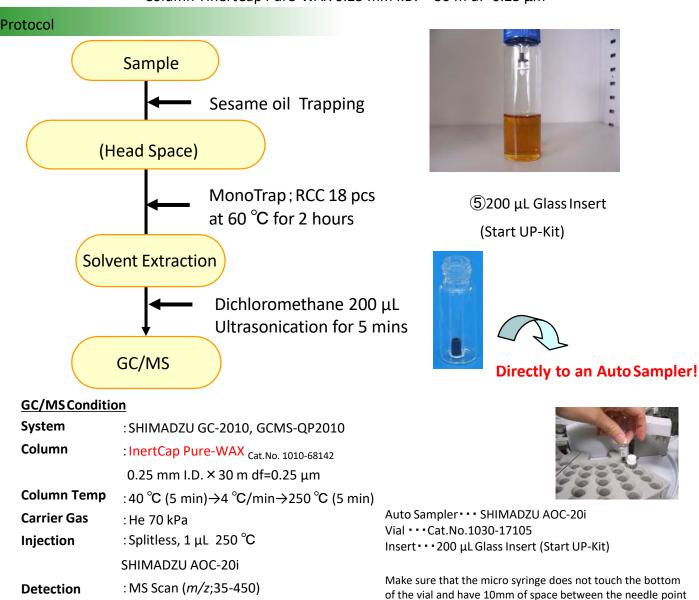
### GT032 GL Sciences Inc.

# Easy Enrichment of Sesame Oil Fragrance with MonoTrap

MonoTrap is a hybrid novel adsorbent that combines large surface area and 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 RCC18 (with activated carbon) to perform simple enrichment analyses of the flavor components of sesame oil. We were able to identify a number of thiazoles and pyrazines, which are characteristic flavor components of sesame oil. 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.



and vial bottom.

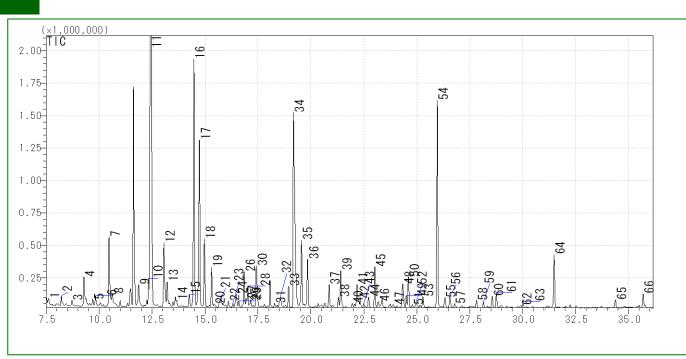
Column : InertCap Pure-WAX 0.25 mm I.D. × 30 m df=0.25 μm

## MonoTrap series lineup

Cat.No	Product	Shape	Size	Active Carbon	Function
1050-72101	MonoTrap DCC18	Disk	O.D.10mmx thick 1mm	Yes	C18
1050-72201	MonoTrap RCC18	Rod	O.D.2.9 mmxI.D.1mm xHight 5mm	Yes	C18
1050-71101	MonoTrap DSC18	Disk	O.D.10mmx thick 1mm	No	C18
1050-71201	MonoTrap RSC18	Rod	O.D.2.9 mmxI.D.1mm xHight 5mm	No	C18



# GL Sciences GC Technical Note



1	Ethylbenzene	23	4,5-Dimethylthiazole	45	2-Formyl-5-methylfuran	
2	Methyl ethyl disulfide	24	Dimethyl trisulfide	46	3,5-Octadien-2-one	
3	3-Methylphenol	25	Methyl isopentyl disulphide	47	2-Acethylpyridine	
4	Pyridine	26	2-Ethyl-6-methyl-pyrazine	48	Butyrolactone	
5	2-Heptanone	27	2,4-Dimethyl-4,5-dihydro-1,3-thiazole	49	2-Acetyl-3,4,5,6-tetrahyd	
6	Heptanal	28	2-Ethyl-5-methyl-pyrazine	50	Acetylpyrazine	
7	Pyrazine	29	Acetdimethylamide	51	tetrahydrothiophene-2-o	
8	2-Methylpyridine	30	Trimethylpyrazine	52	Isopropenylpyrazine	
9	Thiazole	31	2-Methyl-2-thiazoline	53	Acetophenone	
10	1-Pentanol	32	Vinylpyrazine	54	Furfuryl alcohol	
11	Methylpyrazine	33	2,5-Dimethyl-3-ethylpyrazine	55	Ethyl n-propyl disulfide	
12	4-Methylthiazole	34	Acetic acid	56	2-Acetyl-3-methylpyrazin	
13	2,4-Dimethylthiazole	35	Furfural	57	2-Isopropyl-4-methylthia:	
14	Octanal	36	Acetol acetate	58	(5-Methyl-2-furyl)methar	
15	2,5-Dimethylthiazole	37	2-Acetylfuran	59	2(5H)-Furanone	
16	2,5-Dimethylpyrazine	38	Benzaldehyde	60	Acetamide	
17	2,6-Dimethylpyrazine	39	Pyrrole	61	Acetamidoethane	
18	Ethylpyrazine	40	Ethyl isopropyl ketone	62	Propanamide	
19	2,3-Dimethylpyrazine	41	Propanoic acid	63	Furfuryl methyl disulfide	
20	2-Cyclopenten-1-one	42	Furfuryl acetate	64	Guaiacol	
21	5-Ethyl-2-methyl-1,3-thiazole	43	Tetrahydrothiophen-3-one	65	2-Acetylpyrrole	
22	1-Hexanol	44	Hydracrylic acid, methyl ester	66	Pyrrole-2-carboxaldehyde	
			-			

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**GL Sciences, Inc. Japan** 

22-1 Nishishinjuku 6-Chome Shinjuku-ku, Tokyo, 163-1130, Japan Phone: +81-3-5323-6620 +81-3-5323-6621 Fax: Email: world@gls.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

#### ,6-tetrahydropyridine

- ophene-2-one
- razine
- Ы
- disulfide
- thylpyrazine
- methylthiazole
- uryl)methanol
- ie
- ane
- /l disulfide
- oxaldehyde

Fax:

www.glsciencesinc.com Web: **GL** Sciences

**GL Sciences, Inc. USA** 

Torrance, CA 90503

Phone: 310-265-4424

4733 Torrance Blvd. Suite 255

310-265-4425

Email: info@glsciencesinc.com

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