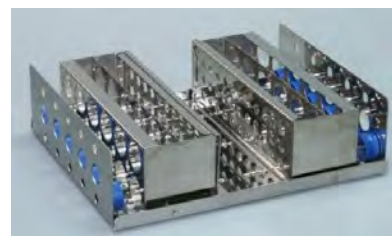
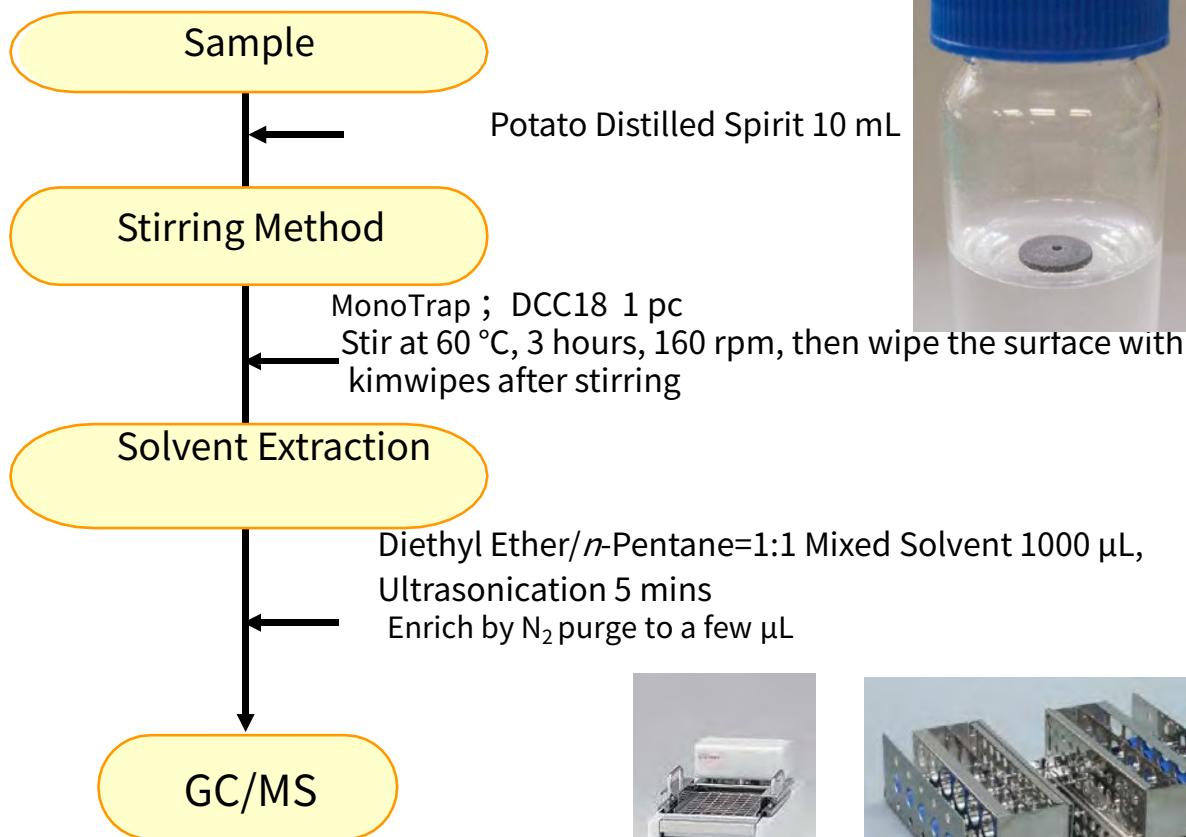


# Easy Enrichment of Potato Distilled Spirit by Stirring Method with MonoTrap

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, MonoTrap DCC18 (with activated carbon) was used to analyze the simple enrichment of potato shochu fragrance components. The water repellency of the ODS groups chemically modified on the surface allows them to float as shown in the bottom panel, and agitation with the sample can improve the collection efficiency more.

Column : InertCap Pure-WAX(Cat.1010-68142) 0.25mmI.D.×30m df=0.25μm

## Protocol

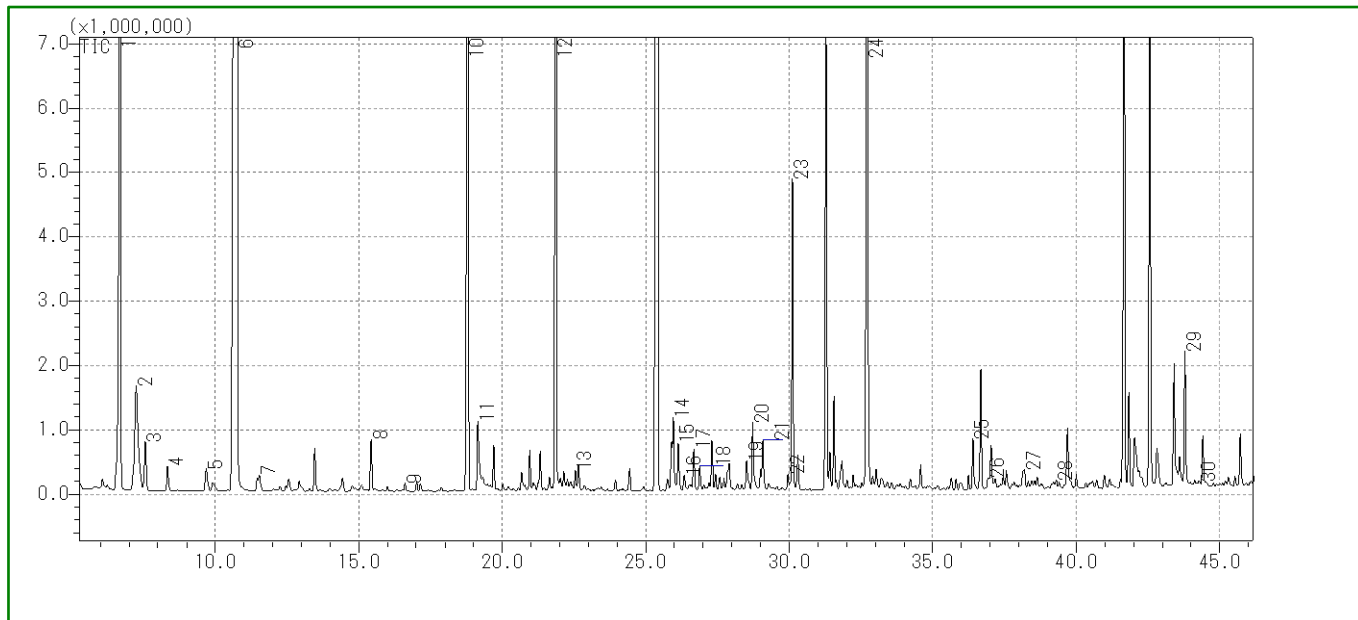


Please contact GL SciencesInc for the shakers

### 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) → 4 °C/min → 250 °C (5 min)
- Carrier Gas** : He 120 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  | Isobutyl alcohol          | 16 | Clorius                |
| 2  | Isoamyl acetate           | 17 | 4-Carene               |
| 3  | 2-Pentanol                | 18 | $\alpha$ -Terpineol    |
| 4  | 1-Butanol                 | 19 | $\alpha$ -Farnesene    |
| 5  | D-Limonene                | 20 | Methyl salicylate      |
| 6  | Isopentyl alcohol         | 21 | $\beta$ -Citronellol   |
| 7  | Ethyl hexanoate           | 22 | Nerol                  |
| 8  | Ethyl lactate             | 23 | Phenethyl acetate      |
| 9  | 3-Ethoxy-1-propanol       | 24 | Phenylethyl Alcohol    |
| 10 | Ethyl octanoate           | 25 | Nerolidol              |
| 11 | Acetic acid               | 26 | Octanoic Acid          |
| 12 | 3-Methoxy-1,2-propanediol | 27 | Ethylcinnamate         |
| 13 | $\beta$ -Linalool         | 28 | 2-phenylethylhexanoate |
| 14 | Citronellol acetate       | 29 | Farnesol               |
| 15 | $\beta$ -Farnesene        | 30 | Coumaran               |

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