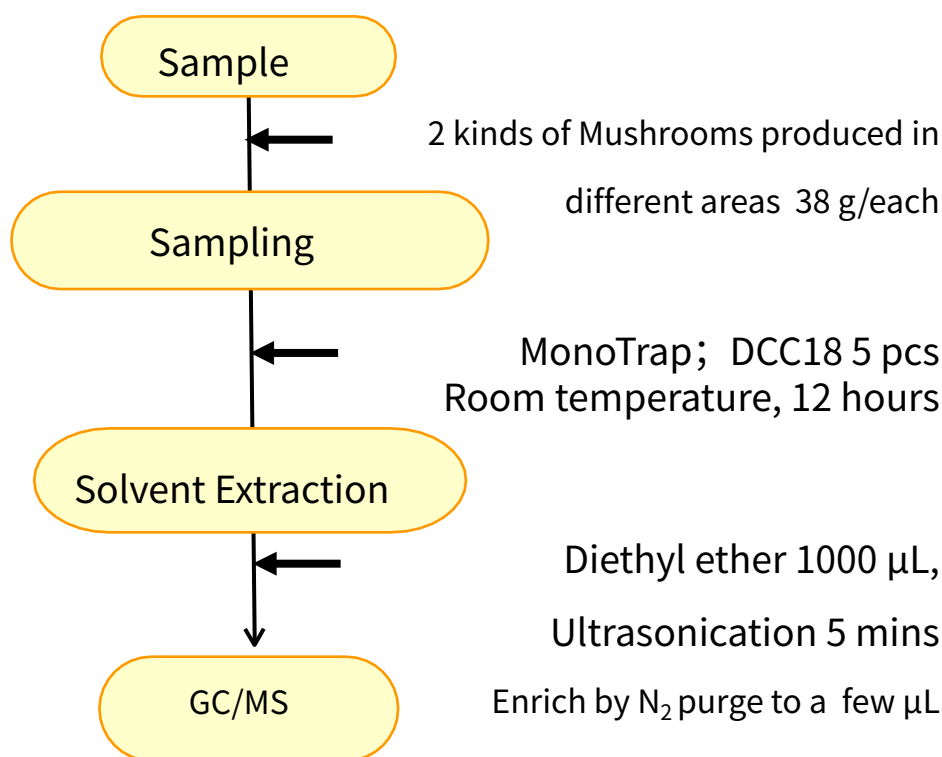


MonoTrap is a hybrid novel adsorbent that combines a large surface area and the properties of silica gel, activated carbon, and ODS. Utilizing the surface of porous silica, it can be used as a tool that makes use of the large surface area and the adsorbent effect caused by the inclusion of activated carbon for high collection efficiency and for short time and sensitive analysis. In this study, we used MonoTrap DCC18 (with activated carbon) to perform simple enrichment analyses of two fragrance components in different production areas (conditions). It is low-cost per unit and requires no conditioning before use, so multiple samples can be easily collected. 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.

Column : InertCap Pure-WAX (Cat.No. 1010-68142) 0.25 mm I.D. × 30 m df=0.25 μm

## Protocol



③MT Extract Cup with Vial

### GC Condition

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

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

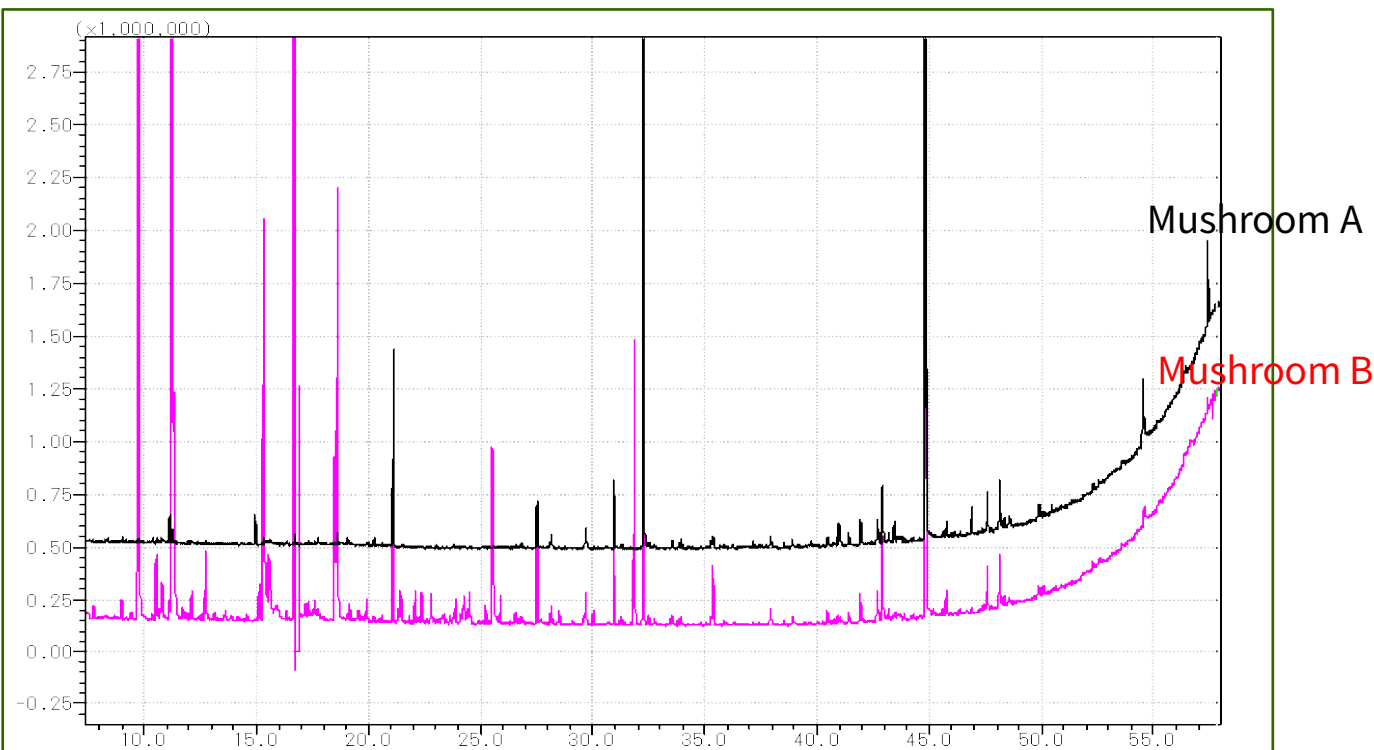
**Column Temp** : 40 °C (5 min) → 4 °C/min → 250 °C (5 min)

GC Capillary Column: **InertCap Pure-WAX** 0.25 mm I.D. × 30 m df=0.25 μm Cat.No.1010-68142

**Carrier Gas** : He 95 kPa

**Injection** : Split 1:10, 1 μL 250 °C

**Detectio** : MS Scan (*m/z*; 25-450)



## <Comparison of Fragrances by Area %>

	Mushroom A	Mushroom B
1-Octen-3-ol	2.3 %	4.5 %
3-Octanol	1.7 %	33.1 %
3-Octanone	1.8 %	35.8 %
Dimethyl trisulphide	1.7 %	4.5 %

Ref) [Food] Fragrance Encyclopedia by Japan Perfumery & Flavoring Association

Fresh mushroom contained more water while the dried one had stronger fragrance. These differences can be observed by GC/MS using MonoTrap

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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