

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, we used MonoTrapDCC18 (with activated carbon) to perform simple enrichment analyses of the flavor components of Japanese spider mushrooms. MonoTrap was placed and passive sampled. 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.

Protocol

Sample

← Orange Osmanthus

Trapping (Passive)

← MonoTrap; DCC18 3 pcs
← Leave outside for 24 hours

Solvent Extraction/Enrichment

← Diethyl ether 500 μ L
← Ultrasonication 5 mins
← Enrich by N₂ purge to a few μ L

GC/MS

GC Condition

System : SHIMADZU GC-2010, GCMS-QP2010 Plus

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

Column Temp : 40 $^{\circ}$ C (5 min) \rightarrow 4 $^{\circ}$ C/min \rightarrow 250 $^{\circ}$ C (5 min)

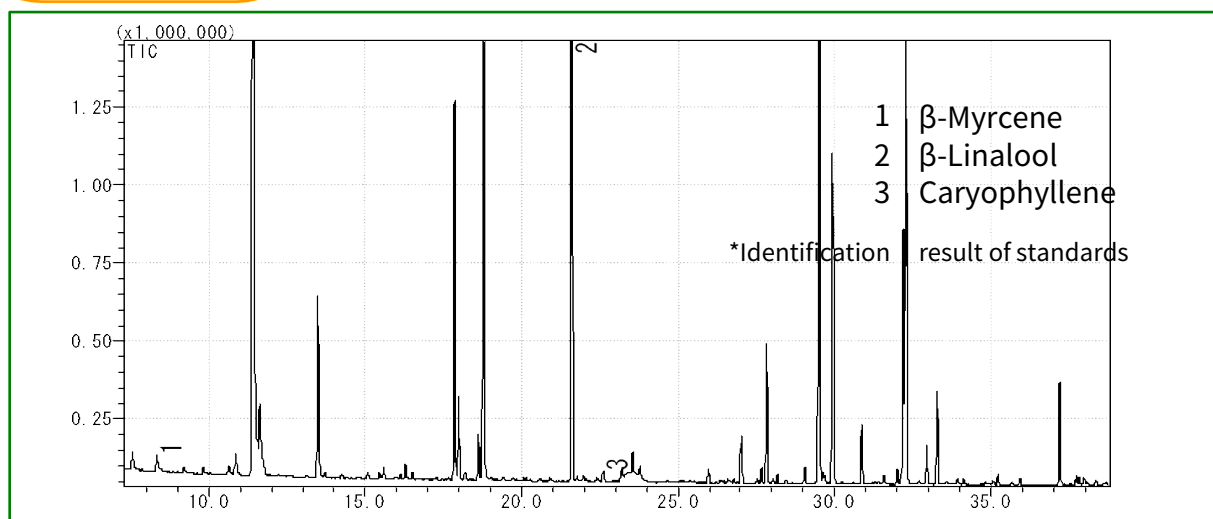
Carrier Gas : He 120 kPa

Injection : Split 1:10, 1 μ L 250 $^{\circ}$ C

Detection : MS Scan (m/z , 35-450)



③MT Extract Cup with Vial



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