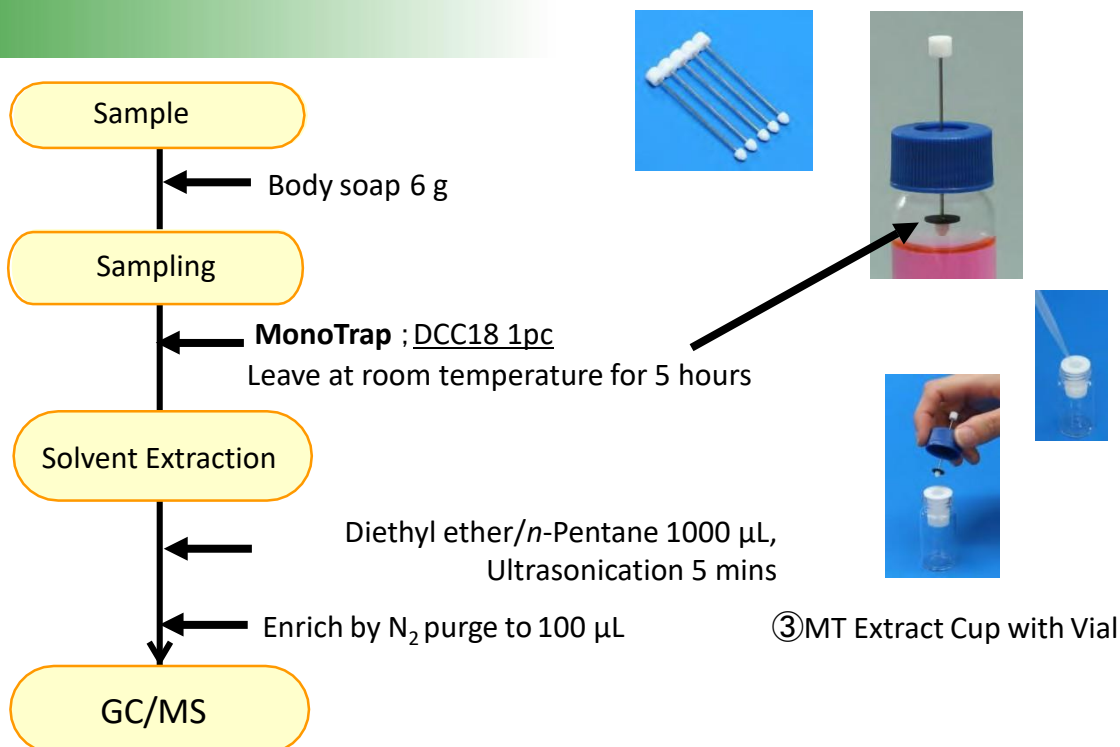


Easy Enrichment of Body Soap Fragrance Compounds with MonoTrap

MonoTrap is a hybrid novel adsorbent that combines a large surface area and the properties of silica gel, activated carbon, and ODSs. 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 fragrance components of body soaps. The use of MT Holder allows easy collection of HS-gas. 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. 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



GC Condition

System : SHIMADZU GC-2010, GCMS-QP2010 Plus

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

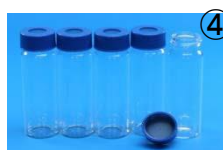
Injection : Splitless, 1 μL

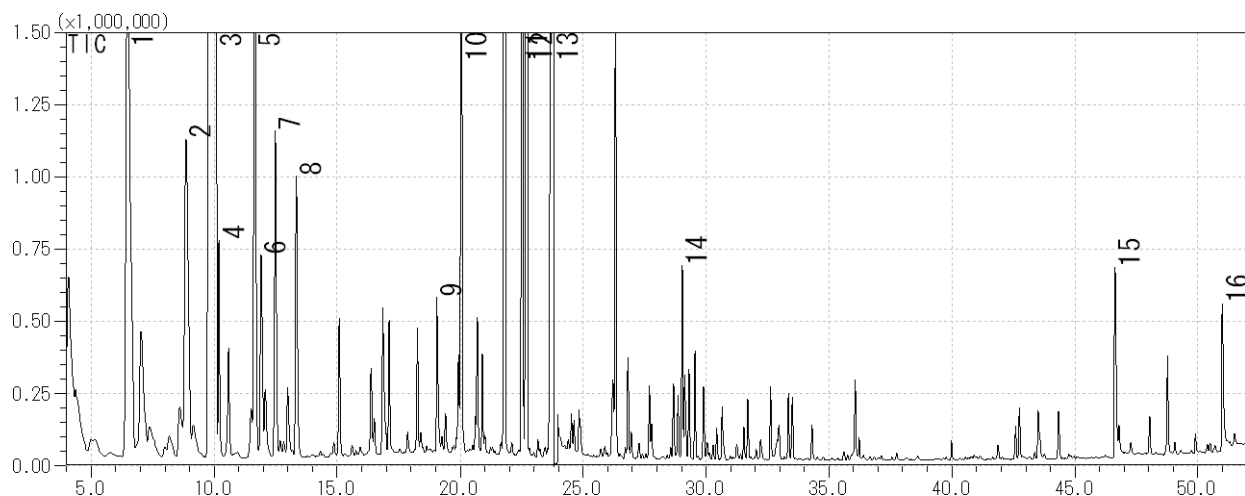
Ultra inert WAX column **InertCap Pure-WAX** is highly recommended to analyze aromatic compounds together with **MonoTrap**

Detection : MS Scan (*m/z*;40-350)

MonoTrap Convenient MonoTrap Start-UP-KIT

	Description	Qty.
①	MT Holder	5
②	MT Stand	1
③	MT Extract Cup with Vial (20mL)	5
④	Clean Pin Hole Septum with vial (40mL)	5
⑤	200μL Glass Insert (Flat Bottom)	40
⑥	MonoTrap DCC18	20
⑦	MonoTrap RCC18	20
⑧	MonoTrap DSC18	20
⑨	MonoTrap RSC18	20





- | | |
|----------------------|-----------------------------------|
| 1 β -Pinene | 9 Acetic acid |
| 2 β -Myrcene | 10 Dihydromyrcenol |
| 3 D-Limonene | 11 β -Linalool |
| 4 Sabinen | 12 4-tert-Butylcyclohexyl acetate |
| 5 γ -Terpinen | 13 Propylene Glycol |
| 6 Styrene | 14 β -Citronellol |
| 7 p-Cymene | 15 Dodecanoic acid |
| 8 Octanal | 16 Tetradecanoic acid |

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