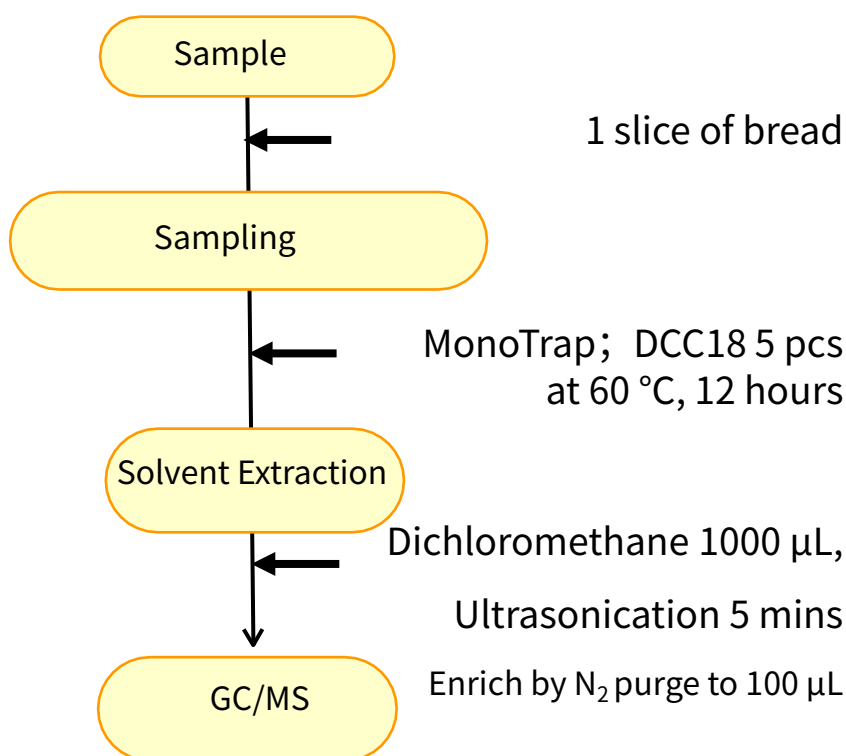


MonoTrap is a hybrid novel adsorbent that combines a large surface area and the properties of silica gel, activated carbon, and ODS. Utilizing the surface of porous silica, it can be used as a tool that makes use of the large surface area and the adsorbent effect caused by the inclusion of activated 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 the fragrance components of bread. With the use of several low-cost MonoTrap copies per sheet at a time, warming at the time of collection and enrichment after extracting solvents, we were able to obtain high sensitivities and a lot of information. 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

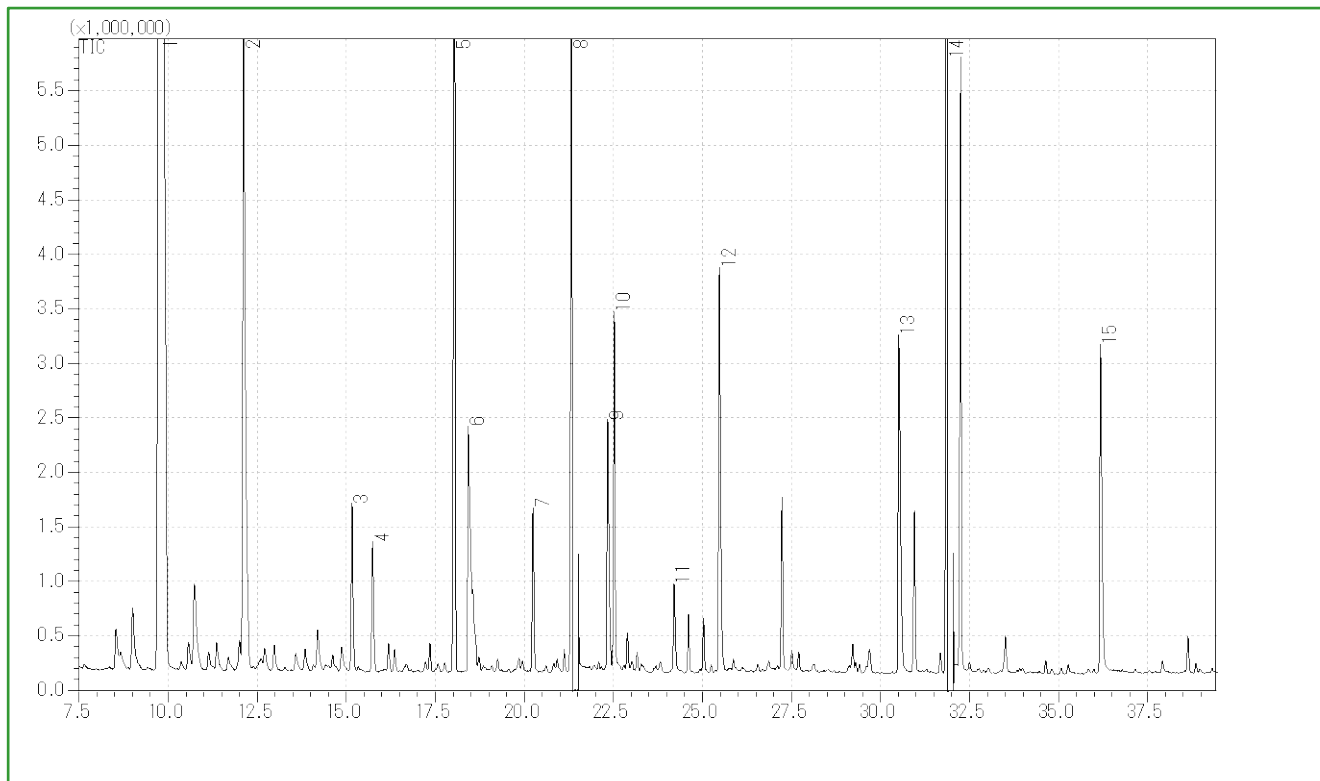
Column Temp : 40 °C (5 min) → 4 °C/min → 250 °C (5 min)

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 : SplitLess, 1 μL 250 °C

Detection : MS Scan (*m/z*, 25-450)



- | | | | |
|---|------------------------|----|---------------------|
| 1 | Isopentyl alcohol | 9 | Isobutyric acid |
| 2 | Acetyl methyl carbinol | 10 | 2,3-Butanediol |
| 3 | 1-Hexanol | 11 | Butanoic acid |
| 4 | 3-Ethoxy-1-propanol | 12 | Isovaleric acid |
| 5 | Ethyl caprylate | 13 | Hexanoic acid |
| 6 | Acetic acid | 14 | Phenylethyl alcohol |
| 7 | Benzaldehyde | 15 | Octanoic acid |
| 8 | 2,3-Butanediol | | |

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