

Easy Concentration & Analysis of Maple Syrup by
MonoTrap - Thermal Desorption

Protocol

Maple Syrup

Put 20 g into a 40 mL vial

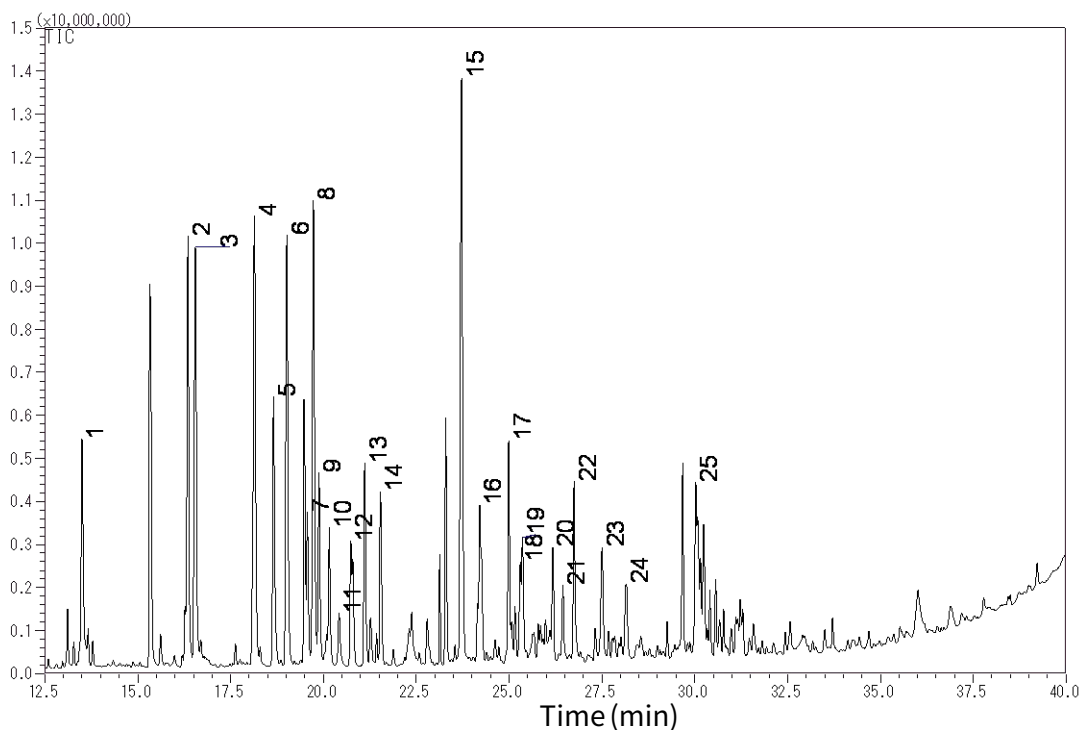
Head Space Sampling
MonoTrap RGC18 TD×1 pc

At 60 °C for 12 hours

TD/GC/MS

GC Conditions

System	: GC/MS-Thermal Desorption (T-Dex II)
Column	: InertCap Pure-WAX 0.25 mm I.D. × 60 m, df = 0.25 µm
Col.Temp.	: 40 °C (5 min) - 6 °C/min - 250 °C
Carrier Gas	: He, 1 mL/min (constant flow)
Desorb Temp.	: 200 °C
Time	: 5 min
Flow	: 5 mL/min
Split	: 25 mL/min
Cryo Trapping	: -150 °C
Injection Temp.	: 250 °C
Detection	: MS Scan (<i>m/z</i> 28.5 - 600)



1. Isobutyl alcohol
2. D-Limonene
3. Isopentyl alcohol
4. Methylpyrazine
5. Acetyl methyl carbinol
6. Hydroxyacetone
7. Dimethylpyrazine
8. Dimethylpyrazine
9. Ethylpyrazine
10. Dimethylpyrazine
11. 2-Cyclopenten-1-one
12. 2-Methyl-2-cyclopentenone
13. 2-Ethyl-6-methylpyrazine

14. Trimethylpyrazine
15. 5-c-Acetyl-1,4-anhydro-2,6-dideoxy-1,4-dimethylhex-1-en-3-ulose
16. Thymine
17. 2,3-Butanediol
18. Propylene Glycol
19. 3-Methylenedihydro-2(3H)-furanone
20. *m*-Methoxytoluene
21. 2-Acetyl-4-methylpyridine
22. 2-Furanmethanol
23. 3-Ethyl-2-hydroxy-2-cyclopenten-1-one
24. 3-Methyl-2(5H)-furanone
25. 2-Hydroxy-1-methylcyclopenten-3-one

*Data provided by Library Search

Products Line

UT



MonoTrap-TD Glass Tube



1050-74201 1050-73201

MonoTrap-TD

1050-73201 RSC18TD (ODS,SilicaGel) 30 pcs

1050-74201 RGC18TD (Graphite Carbon contained) 30 pcs

MonoTrap-TD Glass Tube 1003 -75001

Linux -MT Tube

1003 -75002 TD20/TDex/ATD-MT Tube

Easy 3 Steps

1. Open the Ampoul



Ready-to-use and pre-conditioned MonoTrap TD are delivered in ampoules.

2. Sampling



Samples:
Flower, Food, Alcohol etc...

Hang the MonoTrap for TD in a tedlar bag or a vial to trap the target compounds. No need to use pumps.

3. Analysis



Inert MonoTrap into a glass tube and GC • GC/MS

● Head Space Sampling



● Stirring Sampling ● Passive Sampling



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