

CoreFocus Report

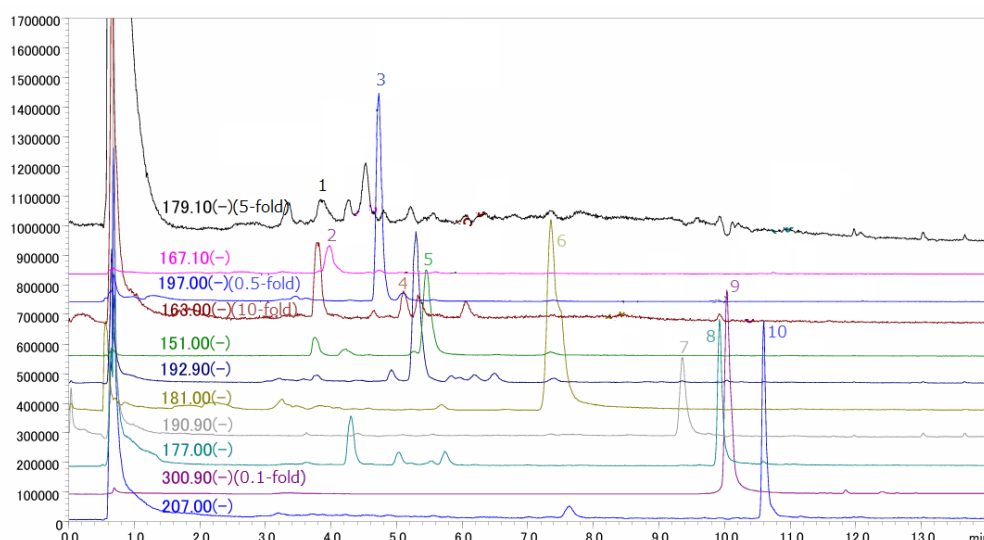
No.579

LC-MS Reversed-phase Shim-pack™ Series

Shim-pack Velox™ Biphenyl

Analysis of Aromatic Carboxylic Acid-Related Compounds in Whiskey

Keywords: Flavor component, Beverage



1. Caffeic acid
2. Vanillic acid
3. Syringic acid
4. p-Coumaric acid
5. Vanillin
6. Syring aldehyde
7. Scopoletin
8. Coniferyl aldehyde
9. Ellagic acid
10. Sinapaldehyde

[HPLC conditions] (Nexera X3)

Column : Shim-pack Velox Biphenyl,
100 mm x 2.1 mm I.D., 2.7 μm*1
Column temp. : 40 °C
Injection volume : 10 μL
Mobile phases : A) 0.1 % formic acid in Water
B) 0.1 % formic acid in MeOH
Flow rate : 0.4 mL/min
Time program (%B) : 5 % (0-2 min) → 25 % (2.01-7.5 min)
→ 100% (15-16 min) → 5 % (16.01-20 min)

1*: P/N : 227-32015-03

[MS conditions] (LCMS-2050)

Ionization : ESI/APCI (DUIS™) (Negative mode)
Nebulizing gas flow : 2.0 L/min
Drying gas flow : 5.0 L/min
Heating gas flow : 7.0 L/min
DL temp. : 250 °C
Desolvation temp. : 500 °C
SIM mode : Vanillin : 151.00
Coumaric acid : 163.00
Vanillic acid : 167.10
Coniferyl aldehyde : 177.00
Caffeic acid : 179.10
Syring aldehyde : 181.00
Scopoletin : 190.90
Trans-Ferulic acid : 192.90
Syringic acid : 197.00
Sinapaldehyde : 207.00
Ellagic acid : 300.90

Source : Application News 01-00641 (JP)

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Columns
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➤ Technical Service /
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