

Scale-Up for Preparative Separation of Apple Flavours from Extract

Method	VFD0107J										
HPLC	RP-Mode, preparative										
Column:	Eurospher II 100-10 C18, 150 x 4 mm ID Eurospher II 100-10 C18, 150 x 20 mm ID										
Phase:	Eurospher II 100-10 C18										
Conditions:	<table> <tr> <td>Eluent:</td> <td>A Water; B Ethanol</td> </tr> <tr> <td>Gradient:</td> <td>0.0 min 55 % A 45 % B 15.0 min 55 % A 45 % B 25.0 min 0 % A 100 % B 30.0 min 55 % A 45 % B 35.0 min 55 % A 45 % B</td> </tr> <tr> <td>Flow rate:</td> <td>1 mL/min and 25 mL/min</td> </tr> <tr> <td>Temperature:</td> <td>ambient</td> </tr> <tr> <td>Volume:</td> <td>10 µL and 250 µL</td> </tr> </table>	Eluent:	A Water; B Ethanol	Gradient:	0.0 min 55 % A 45 % B 15.0 min 55 % A 45 % B 25.0 min 0 % A 100 % B 30.0 min 55 % A 45 % B 35.0 min 55 % A 45 % B	Flow rate:	1 mL/min and 25 mL/min	Temperature:	ambient	Volume:	10 µL and 250 µL
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Temperature:	ambient										
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Order No. 15DE181E2N
Order No. 15PE181E2N



Detection: UV 200 nm, 3 mm flow cell

Substances: trans-2-Hexen-1-al; trans-2-Hexen-1-ol; Methyl 2-methylbutyrate; Ethyl isobutyrate; Ethyl butyrate; n-Butyl acetate; Ethyl 2-methylbutyrate; Ethyl valerate; 3-Methylbutyl acetate; 2-Methylbutyl acetate;

Keywords: Apple, Flavours, Extract

Chromatogram:

- trans-2-Hexen-1-al ($C_6H_{10}O$)
- trans-2-Hexen-1-ol ($C_6H_{12}O$)
- Methyl 2-methylbutyrate ($C_6H_{12}O_2$)
Ethyl isobutyrate ($C_6H_{12}O_2$)
Ethyl butyrate ($C_6H_{12}O_2$)
n-Butyl acetate ($C_6H_{12}O_2$)
- Ethyl 2-methylbutyrate ($C_7H_{14}O_2$)
Ethyl valerate ($C_7H_{14}O_2$)
3-Methylbutyl acetate ($C_7H_{14}O_2$)
2-Methylbutyl acetate ($C_7H_{14}O_2$)
- other compounds
(elution with higher
Ethanol concentration)

