Phenolic Compounds from Red Grape Seed Extract

Application #AN3790

Conditions

Column: ACE 3 C18-AR
Dimensions: 200 x 4.6 mm
Part Number: ACE-119-2046
Mobile Phase: A: 2% acetic acid in H_2O
B: 2% acetic acid in MeCN

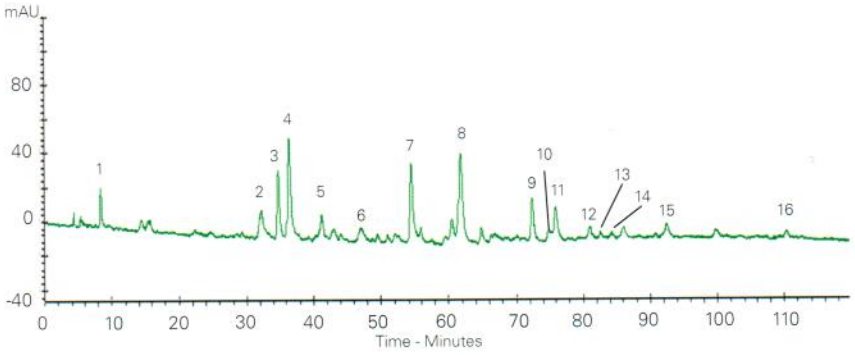
Gradient:

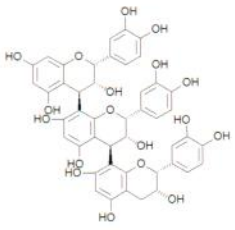
Times (mins)	%B
0	0
80	20
115	28
120	100
130	100

Flow Rate: 0.6 mL/min
Detection: UV, 280 nm
Peak identities established by combination of retention times, UV, fluorescence, NMR and ESI-MS (negative ion mode)

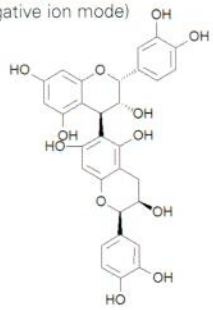
Analytes

1. Gallic acid
2. Procyanidin B3 (dimer) + procyanidin C2 (trimer)
3. Procyanidin B1 (dimer)
4. (+)-Catechin
5. Procyanidin C3 (trimer)
6. Procyanidin B4 (dimer)
7. Procyanidin B2 (dimer)
8. (-)-Epicatechin
9. Procyanidin B3 gallate (dimer)
10. Procyanidin B7 (dimer)
11. Procyanidin C1 (trimer)
12. Procyanidin tetramer
13. Procyanidin pentamer
14. Procyanidin hexamer
15. (-)-Epigallocatechin
16. Procyanidin B5 (dimer)

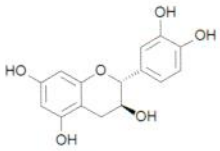




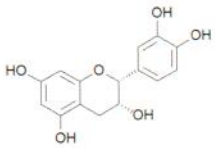
Procyanidin C1



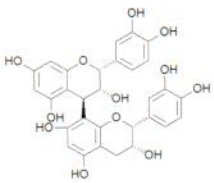
Procyanidin B5



(+)-Catechin



(-)-Epicatechin



Procyanidin B2

Grases F, Prieto R, Fernandez-Cabot R, Costa-Bauza A, Sanchez A, Prodanov M (2015) Effect of consuming a grape seed supplement with abundant phenolic compounds on the oxidative status of healthy human volunteers. Nutrition Journal 14:94 (2015) doi: 10.1186/s12937-015-0083-3

Phenols in Purple Coneflower *(Echinacea Purpurea)*

Application #AN2920

Conditions

Column: ACE 5 C18
Dimensions: 250 x 4.6 mm
Part Number: ACE-121-2546
Mobile Phase: A: 0.1% H_3PO_4 in H_2O
B: MeCN

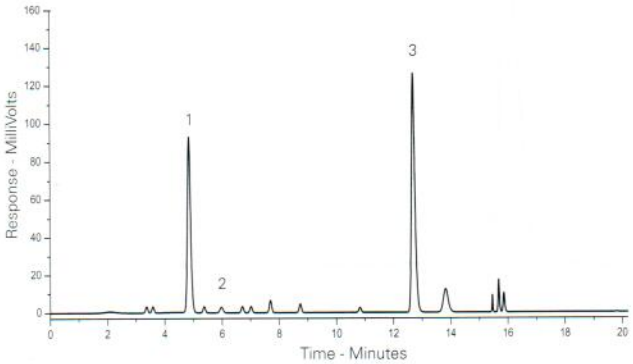
Gradient:

Time (mins)	%B
0	10
13	22
14	40

Flow Rate: 1.5 mL/min
Injection: 10 µL
Temperature: 35 °C
Detection: UV, 330 nm

Analytes

1. Caftaric acid
2. Chlorogenic acid
3. Cichoric acid



Reproduced with permission of Bionorica Extracts SL, Spain

Echinacea Purpurea