

Phenolic Compounds from Red Grape Seed Extract

Application #AN3790

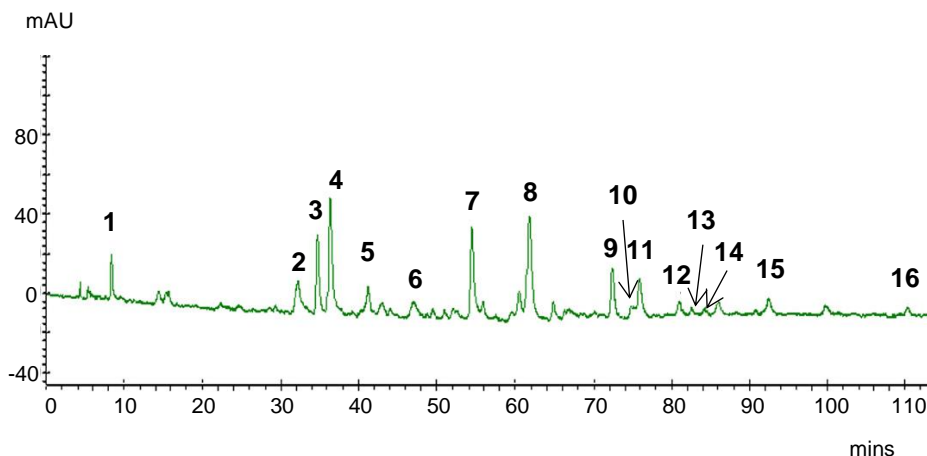
Conditions

Column: ACE 3 C18-AR
Dimensions: 200 x 4.6 mm
Part Number: ACE-119-2046
Mobile Phase: A: 2% acetic acid in H₂O
B: 2% acetic acid in MeCN

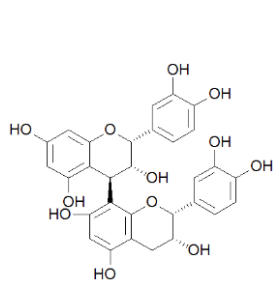
Time (mins)	%B
0	0
80	20
115	28
120	100
130	100

Flow Rate: 0.6 mL/min
Detection: UV, 280 nm

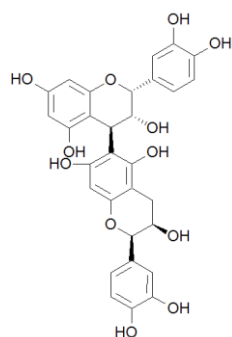
Peak identities established by combination of retention times, UV, fluorescence, NMR and ESI-MS (negative ion mode)



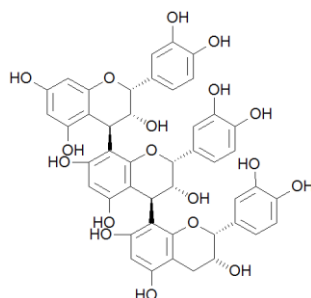
1. Gallic acid
2. Procyanidin B3 (dimer) + procyanidin C2 (trimer)
3. Procyanidin B1 (dimer)
4. (+)-Catechin
5. Procyanidin C3 (trimer)
6. Procyanidin B4 (dimer)
7. Procyanidin B2 (dimer)
8. (-)-Epicatechin
9. Procyanidin B3 gallate (dimer)
10. Procyanidin B7 (dimer)
11. Procyanidin C1 (trimer)
12. Procyanidin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



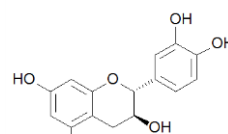
Procyanidin B2



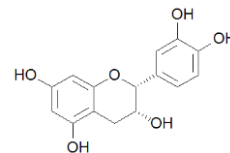
Procyanidin B5



Procyanidin C1



(+)-Catechin



(-)-Epicatechin

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.

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