Proanthocyanidins from Cinnamon Bark Extract

ACE® Ultra-inert UHPLC & HPLC Columns

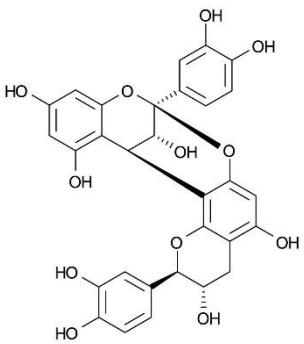
Application #AN3510

Conditions

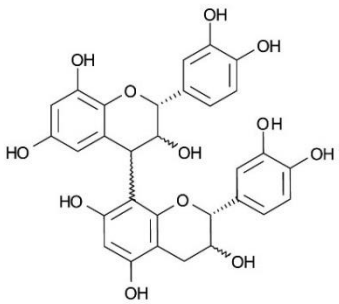
Column:	ACE 3 C18
Dimensions:	250 x 4.6 mm
Part Number:	ACE-111-2546
Mobile Phase:	A: 1% acetic acid in H_2O
	B: MeCN

Time (mins)	%B
0	36
35	36
40	50
45	100
55	0
60	0

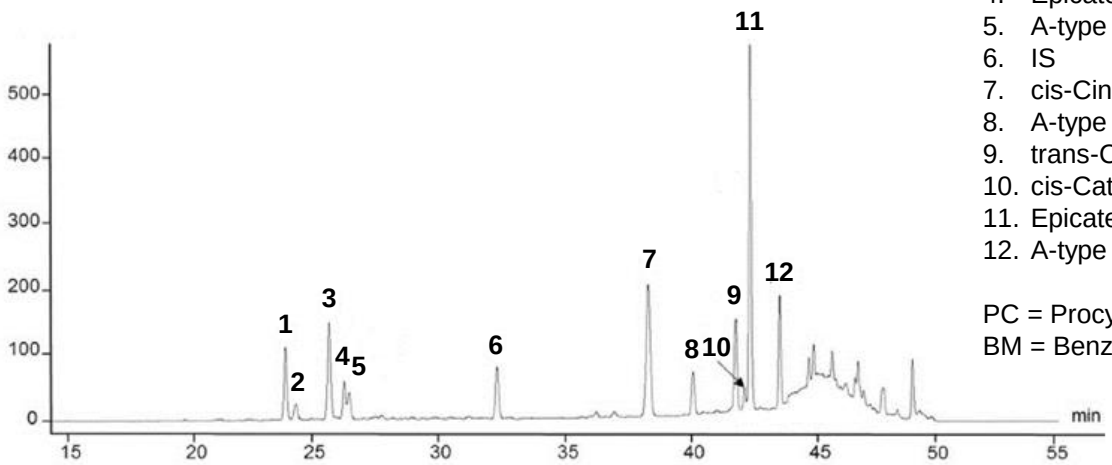
Flow Rate:	0.75 mL/min
Temperature:	Ambient
Detection:	UV, 280 nm
Sample:	Cinnamon bark extract thiolysed with benzyl mercaptan



Example of A type procyanidin dimer



Example of B type procyanidin dimer



1. Catechin
2. A-type PC dimer
3. A-type PC trimer
4. Epicatechin
5. A-type PC trimer
6. IS
7. cis-Cinnamic acid
8. A-type PC-BM trimer
9. trans-Cinnamic acid
10. cis-Catechin-BM
11. Epicatechin-BM
12. A-type PC-BM dimer

PC = Procyanidin
BM = Benzyl mercaptan adduct

Williams, A. R. *et al.* Anthelmintic activity of *trans*-cinnamaldehyde and A and B-type proanthocyanidins derived from cinnamon (*Cinnamomum verum*). *Sci. Rep.* 5, 14791; doi:10.1038/srep14791 (2015).

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