Brazilian Red Propolis Biomarkers by LC-FTMS

ACE® Ultra-inert UHPLC & HPLC Columns

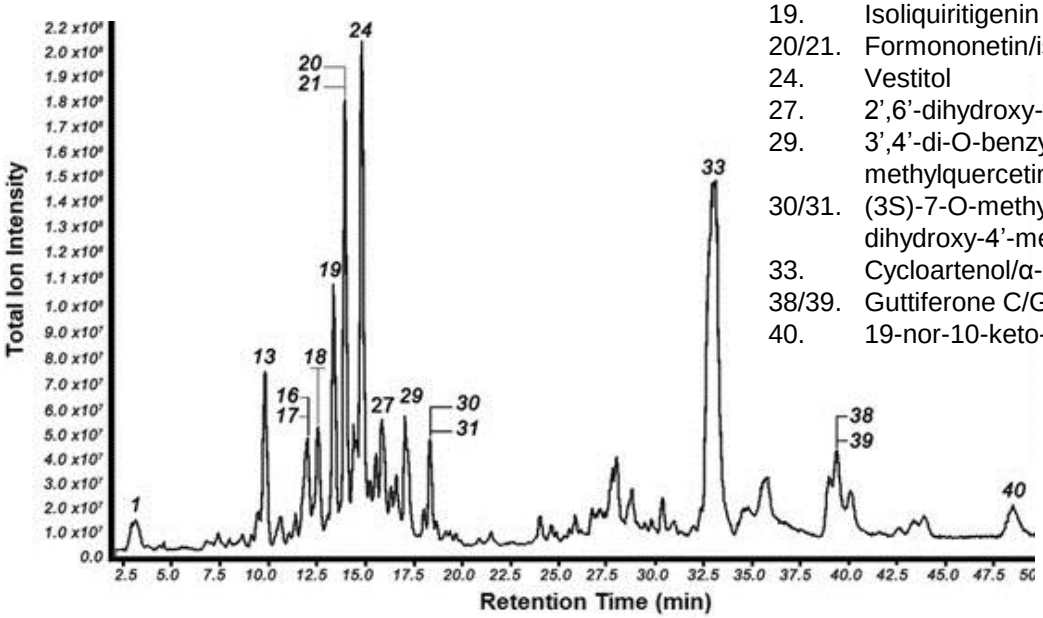
Application #AN3370

Conditions

Column:	ACE 5 C18
Dimensions:	100 x 4.6 mm
Part Number:	ACE-121-1046
Mobile Phase:	A: 0.1% formic acid in H_2O
	B: 0.1% formic acid in MeCN

Time (mins)	%B
0	30
6	45
10	60
14	75
18	90
22	100
47	100
52	30
58	30

Flow Rate:	0.3 mL/min
Injection:	10 µL
Detection:	Thermo Scientific LC-Orbitrap FTMS
	Negative ion mode
	Scan range 50-1200 amu
Sample:	Ethanolic extract of red propolis



1. Caffeic acid
13. Liquiritigenin
16/17. Naringenin/Pinobanksin
19. Isoliquiritigenin
20/21. Formononetin/isoformonetin
24. Vestitol
27. 2’,6’-dihydroxy-4’-methoxydihydrochalcone
29. 3’,4’-di-O-benzyl-7O-(2-hydroxyethyl)-3-O-methylquercetin
30/31. (3S)-7-O-methylvestitol/Calycosin/7,3’-dihydroxy-4’-methoxy-8-methylflavane
33. Cycloartenol/α-amyrin/β-amyrin
38/39. Guttiferone C/Guttiferone D
40. 19-nor-10-keto-25-hydroxyvitamin D3

Reference: de Mendonca et al, BMC Complement Altern Med. 2015; 15: 357. Published online 2015 Oct 14, doi:10.1186/s12906-015-0888-9

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