



Department of Molecular and Cell Biology

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To:

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Steam-distilled Helichrysum petiolare essential oil (200 times dilution with ethyl acetate), 1 µl was injected into GCMS on 14 February 2023.

Results:

Compound names “*” compound identified by NIST 13 and Agilent Fiehn library-not verified by commercial reference material	Relative peak area %	wt/v % calculated with standard curve
beta-Pinene	46.98	22.84
alpha-Pinene	15.95	7.35
Humulene	6.40	7.63
*trans-beta-Ocimene	4.95	
*1H-Benzocyclohepten-9-ol, 2,4a-.beta.,5,6,7,8,9,9a- .beta.-octahydro-3,5,5,9-.beta.-tetramethyl-	3.45	
*alpha-Calacorene	2.93	
*Naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1- (1-methylethyl)-, (1S-cis)-	2.87	
*Patchouli alcohol	2.45	
*Tricyclo[5.4.3.0(1,8)]tetradecan-6-one, 4-ethenyl-3- hydroxy-2,4,7,14-tetramethyl	1.88	
*beta-Himachalene=1H-Benzocycloheptene, 2,4a,5,6,7,8-hexahydro-3,5,5,9-tetramethyl-, (R)-	1.02	
*geranyl-alpha-terpinene	0.88	
*Neryl butyrate=Butanoic acid, 2-methyl-, 3,7- dimethyl-2,6-octadienyl ester, (Z)-	0.76	
p-Cymene	0.69	0.10
*trans-alpha-Bergamotene	0.66	
*Eucalyptol	0.62	
gamma-Terpinene	0.49	0.19
*(R)-Lavndulol=4-Hexen-1-ol, 5-methyl-2-(1- methylethenyl)-, acetate	0.45	

D-Limonene	0.44
*Gamma-gurjunene=Azulene, 1,2,3,3a,4,5,6,7-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, [1R-(1.alpha.,3a.beta.,4.alpha.,7.beta.)]-	0.38
*Copaene	0.36
*beta-Phellandrene	0.35
*Lavandulyl butyrate or Geranyl isobutyrate	0.31
*beta-Ocimene	0.30
alpha-Terpinene	0.29
*Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6,9-tetramethyl-, (1R,2S,7R,8R)-	0.29
3-Carene	0.28
*6,7-Dimethyl-1,2,3,5,8,8a-hexahydronaphthalene	0.28
*4aH-Cycloprop[e]azulen-4a-ol, decahydro-1,1,4,7-tetramethyl-, [1aR-(1a.alpha.,4.beta.,4a.beta.,7.alpha.,7a.beta.,7b.alpha.)]-	0.26
*Lavandulyl propionate	0.24
*1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,7b-octahydro-1,1,4,7-tetramethyl-, [1aR-(1a.alpha.,4.alpha.,4a.beta.,7b.alpha.)]-	0.24
*(1R,3E,7E,11R)-1,5,5,8-Tetramethyl-12-oxabicyclo[9.1.0]dodeca-3,7-diene	0.23
*Bicyclo[3.1.0]hex-2-ene, 4-methyl-1-(1-methylethyl)-	0.22
*alpha-Muurolene	0.22
Nerolidol I	0.19
*5-Hydroxy-6-methoxy-8-[(4-amino-1-methylbutyl)amino]quinoline trihydrobromide	0.19
Camphene	0.18
Caryophyllene	0.16
*2,4,6-Octatriene, 2,6-dimethyl-	0.15
*Terpinen-4-ol	0.13
*Ledol	0.13
Terpinolene	0.12
*Alloaromadendrene	0.09
alpha-Terpineol	0.08
beta-Eudesmol	0.08
*1(2H)-Naphthalenone, octahydro-4a,8a-dimethyl-7-(1-methylethyl)-, [4aR-(4a.alpha.,7.beta.,8a.alpha.)]-	0.08
*(R,1E,5E,9E)-1,5,9-Trimethyl-12-(prop-1-en-2-yl)cyclotetradeca-1,5,9-triene	0.07
*tau-Muurolol or Cadinol	0.07
alpha-Bisabolol	0.07
*Aromandendrene	0.03
Cedrol	0.02
*l-Menthone_2	0.02
endo-Borneol	0.01
*Kaur-16-ene	0.01
*l-Menthone_1	0.01

0.30

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