



Gas Chromatography Analysis

Dear Customer,

Attached you will find the results of gas chromatographic analysis based on the information provided by our Producer/Laboratory for:

Sample Reference **1596**

We testify that the Chromatographic Analysis (GC) for the mentioned sample is identical with:

Product No.: **1596**
Product Name: **Helichrysum (Immortella), Balkans organic**
Botanical Name: **Helichrysum italicum**
Batch No.: **1016161**

Bühl, 2019-02-18

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Dr. David Nayan

Peak Report TIC		
R.Time	Name	Area%
7.153	2-Methyl-2-heptene	0.05
8.480	4-Methyl-3-hexanone	0.05
13.004	alpha-Pinene	12.75
13.816	alpha-Fenchene	0.17
13.917	Camphene	0.08
15.529	beta-Pinene	0.26
17.927	alpha-Terpinene	0.11
18.412	para-Cymene	0.17
18.729	Limonene	1.73
18.939	1,8-Cineole	0.29
20.018	Isobutyl angelate	0.20
20.630	gamma-Terpinene	0.28
22.463	Terpinolene	0.10
23.431	Linalool	0.38
23.668	2-Methylbutyl-2-methylbutyrate	0.08
26.990	Isoamyl tiglate	0.70
29.090	Helichrysum diketone (Italidione)	0.30
30.092	alpha-Terpineol	0.22
32.082	Nerol	0.20
36.146	Helichrysum ester	0.34
41.234	Neryl acetate	28.30
41.888	alpha-Ylangene	0.51
42.341	alpha-Copaene	1.99
42.403	Isoitalicene	0.96
44.264	Italicene	4.04
44.508	Italicene isomer	0.11
44.735	cis-alpha-Bergamotene	0.92
45.165	beta-Caryophyllene	4.47
45.985	italidione (MW=204)	1.53
46.512	6,9-Guaiadiene	0.14
46.885	Neryl propionate	0.61
47.214	trans-beta-Farnesene	0.10
47.404	alpha-Humulene	0.23
47.647	Alloaromadendrene	0.17
47.917	alpha-Acoradiene	0.35
48.147	beta-Acoradiene	0.26
48.307	4,5-di-epi-Aristolochene	0.09
48.509	Helichrysum unidentified + italidione	2.32
48.822	gamma-Curcumene	13.67
48.998	Ar-Curcumene	4.30
49.191	Farnesene isomer	0.86
49.515	beta-Selinene	7.47
49.705	trans-Murrola-4(14),5-diene	0.26
49.941	alpha-Selinene	4.35
50.059	alpha-Muurolene	0.25
50.629	beta-Bisabolene	0.12
50.734	beta-Curcumene	0.46
50.943	gamma-Cadinene	0.36
51.246	delta-Cadinene	0.85
52.199	Helichrysum unidentified	0.17
54.354	italidione (MW=238)	0.72
56.386	Helichrysum unidentified	0.11
56.851	Eudesm-5-en-11-ol	0.29
59.403	Helichrysum unidentified	0.19
		100.00

