



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 **1591**

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

Product No.:	1591
Product Name:	Helichrysum bracteiferum (Immortella)
Botanical Name:	Helichrysum bracteiferum
Batch No.:	1020000

Bühl, 2019-11-22

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Dr. David Nayan

Rt	# CAS	Compounds	Fid %
5.84	111-66-0	1-Octène	0.135
9.33	000124-11-8	1-Nonène	0.111
10.67	2867-05-2	Alpha Thujène	0.471
10.98	80-56-8	Alpha-Pinène	4.426
11.56	471-84-1	Fenchène	0.013
11.62	79-92-5	Camphène	0.075
12.44	3387-41-5	Sabinène	1.646
12.68	127-91-3	Béta-Pinène	11.178
12.83	3391-86-4	1-Octèn-3-ol	0.091
13.02	123-35-3	Myrcène	0.725
13.10	66113-06-2	Déhydro-1,8-Cinéole	0.103
13.69	99-83-2	Alpha-Phellandréne	0.105
14.05	99-86-5	Alpha-Terpinène	0.593
14.39	99-87-6	Para-Cymène	0.980
14.51	138-86-3	Limonène	3.337
14.63	555-10-2	Béta-Phellandréne	0.378
14.71	470-82-6	Eucalyptol	23.714
14.86	3338-55-4	(Z)-Béta-Ocimène	0.016
15.04	3779-61-1	(E)-Béta-Ocimène	0.069
15.50	99-85-4	Gamma-Terpinène	1.115
16.00	17699-16-0	Cis-Hydrate de Sabinène (IPP vs OH)	0.031
16.41	586-62-9	Terpinolène	0.278
16.95	78-70-6	Linalol	1.140
17.12	124-19-6	n-Nonanal	0.048

Rt	# CAS	Compounds	Fid %
17.81	29803-82-5	Cis-Para-Menth-2-ène-1-ol	0.068
18.40	29803-81-4	Trans-Para-Menth-2-ène-1-ol	0.082
19.33	7299-42-5	Delta-Terpinéol	0.229
19.41	507-70-0	Bornéol	0.053
19.62	562-74-3	Terpinène-4-ol	1.846
20.09	98-55-5	Alpha-Terpinéol	0.964
24.27	17699-14-8	Alpha-Cubébène	0.236
24.94	14912-44-8	Alpha-Ylangène	0.301
25.11	3856-25-5	Alpha-Copaène	0.490
25.35	5208-59-3	Béta-Bourbonène	0.175
25.45	515-13-9	Béta-Elémène	0.462
25.97	489-40-7	Alpha-Gurjunène	0.196
26.34	20479-06-5	Béta-Ylangène	0.753
26.38	87-44-5	Béta-Caryophyllène	8.317
26.60	18252-44-3	Béta-Copaène	0.670
26.84	489-39-4	Aromadendréne	1.084
27.10	189165-77-3	Trans-Muurola-3,5-diène	0.096
27.35	6753-98-6	Alpha-Humulène	12.211
27.66	567-75-9	Leptospermone	0.125
27.72	30021-74-0	Gamma-Murolène	1.242
27.84	20085-19-2	Alpha-Amorphène	0.176
27.95	23986-74-5	Germacrène D	2.083
28.18	17066-67-0	Béta-Sélinène	2.237
28.33	24703-35-3	Bicyclogermacrène	4.740

Rt	# CAS	Compounds	Fid %
28.72	39029-41-9	Gamma-Cadinène	0.595
28.81	483-76-1	Delta-Cadinène	1.252
28.95	72937-55-4	Cis-Calaménène	0.261
29.28	82468-90-4	Alpha-Cadinène	0.112
30.38	6750-60-3	Spathulénol	0.464
30.52	1139-30-6	Oxyde de Caryophyllène	0.598
30.59	552-02-3	Viridiflorol	0.208
31.20	19888-34-7	Humulène Epoxyde II	0.552
31.65	1209-71-8	Gamma-Eudesmol	0.123
32.24	473-16-5	Alpha-Eudesmol	0.253
32.32	5945-72-2	Neo-Intermédeol	0.098
Total			94.129