



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 **1332**

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

Product No.:	1332
Product Name:	Verbena white
Botanical Name:	Lippia alba
Batch No.:	1015690

Bühl, 2019-05-06

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Dr. David Nayan

Rt	# CAS	Compounds	Fid %
11.95	2867-05-2	Alpha-Thujène	0.076
12.25	80-56-8	Alpha-Pinène	2.591
12.84	79-92-5	Camphène	0.072
12.97	36262-09-6	Thuja-2,4(10)-Diène	0.116
13.66	3387-41-5	Sabinène	0.580
13.88	127-91-3	Béta-Pinène	2.447
14.23	123-35-3	Myrcène	0.064
14.27	66113-06-2	Déhydro-1.8-Cinéol	0.125
14.87	99-83-2	Alpha-Phellandrène	0.029
14.96	13466-78-9	Delta-3-Carène	0.011
15.25	99-86-5	Alpha-Terpinène	0.123
15.53	99-87-6	Para-Cymène	0.447
15.72	138-86-3	Limonène	0.634
15.76	555-10-2	Béta-Phellandrène	0.027
15.87	470-82-6	Eucalyptol	17.239
16.23	3779-61-1	(E)-Béta-Ocimène	0.022
16.67	99-85-4	Gamma-Terpinène	0.174
17.10	17699-16-0	Cis-Hydrate de Sabinène (IPPvs. OH	0.107
17.60	586-62-9	Terpinolène	0.117
17.74	15186-51-3	Rose-Furan	0.041
18.00	78-70-6	Linalol	0.357
18.95	4501-58-0	Alpha-Campholenal	0.084
19.37	38651-65-9	Nopinone	0.078
19.47	547-61-5	Trans-Pinocarvéol	0.653

Rt	# CAS	Compounds	Fid %
19.94	513-20-2	Sabina Cétone	0.053
20.36	7299-42-5	Delta-Terpinéol	0.182
20.69	562-74-3	Terpinène-4-ol	0.520
21.13	98-55-5	Alpha-Terpinéol	0.281
21.18	564-94-3	Myrténal	0.358
21.34	499-70-7	Trans-Para-Menthan-2-one	0.033
21.51	80-57-9	Verbénone	0.106
22.56	99-49-0	Carvone	0.125
23.76	76-49-3	Acétate de Bornyle	0.046
25.18	32531-56-9	Bicycloélémente	1.871
25.24	20307-84-0	Delta-Elémène	0.073
25.43	-	Sesquiterpène oxygéné MW204	0.126
25.57	17699-14-8	Apha-Cubébène	0.316
26.26	95910-36-4	Isolédène	0.437
26.40	3856-25-5	Alpha-Copaène	0.721
26.65	5208-59-3	Béta-Bourbonène	0.086
26.71	13744-15-5	Béta-Cubébène	0.322
26.74	515-13-9	Béta-Elémène	0.202
26.82	93-15-2	Méthyl-Eugénol	0.017
27.28	489-40-7	Alpha-Gurjunène	0.727
27.70	87-44-5	Béta-Caryophyllène	16.709
27.85	13474-59-4	Alpha-Trans-Bergamotène	0.622
28.11	489-39-4	Aromadendrene	0.610
28.36	189165-77-3	Trans-Muurola-3,5-diène	0.460

Rt	# CAS	Compounds	Fid %
28.56	6753-98-6	Alpha-Humulène	1.195
28.68	25246-27-9	Allo-Aromadendrene	0.784
28.90	20085-11-4	Trans-Cadina-1(6),4-diène	0.351
28.98	30021-74-0	Gamma-Muurolène	0.632
29.20	23986-74-5	Germacrène D	1.501
29.43	21747-46-6	Viridiflorène	0.253
29.49	54324-03-7	Trans-Muurola-4(14)5-diène	0.924
29.65	24703-35-3	Bicyclogermacrène	22.461
29.96	39029-41-9	Gamma-Cadinène	0.175
30.06	483-76-1	Delta-Cadinène	2.182
30.17	72937-55-4	Cis-Calaménène	3.247
30.42	38758-02-0	Trans-Cadina-1,4-Diène	0.711
30.66	21391-99-1	Alpha-Calacorène	1.345
30.95	40716-66-3	(E)-Nérolidol	0.373
31.58	6750-60-3	Spathulénol	2.084
31.74	1139-30-6	Oxyde de Caryophyllène	2.213
33.74	483-78-3	Cadalène	0.399
		Total	92.047