



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 **1471**

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

Product No.: **1471**
Product Name: **Spruce (Blue Spruce)**
Botanical Name: **Picea pungens**
Batch No.: **1019601**

Bühl, 2019-01-21


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Dr. David Nayan

Rt	# CAS	Compounds	Fid %
9.03	529-16-8	Santène	1.294
10.57	508-32-7	Tricyclène	1.377
10.68	2867-05-2	Alpha-Thujène	0.150
11.02	80-56-8	Alpha-Pinène	17.058
11.56	471-84-1	Alpha-Fenchène	0.065
11.65	79-92-5	Camphène	14.040
11.75	36262-09-6	Thuja-2,4(10)-diène	0.019
12.45	3387-41-5	Sabinène	0.238
12.69	127-91-3	Béta-Pinène	11.691
13.03	123-35-3	Myrcène	2.035
13.76	13466-78-9	Delta-3-Carène	5.916
14.37	99-87-6	Para-Cymène	0.854
14.52	138-86-3	Limonène	6.222
14.58	555-10-2	Béta-Phellandréne	0.569
14.64	470-82-6	Eucalyptol	0.508
16.67	1195-32-0	Para-Cyménène	0.237
16.97	1686-14-2	Oxyde d'Alpha-Pinène	0.298
18.41	547-61-5	Trans-Pinocarvéol	0.412
18.65	76-22-2	Camphre	3.515
18.88	64474-11-9	Hydrate de Camphène	0.303
19.10	16812-40-1	Pinocarvone	0.091
19.44	507-70-0	Bornéol	1.490
19.63	562-74-3	Terpinen-4-ol	0.367
19.92	500-02-7	Cryptone	0.354

Rt	# CAS	Compounds	Fid %
20.10	98-55-5	Alpha-Terpinéol	0.966
20.14	515-00-4	Myrténol	0.294
20.63	4057-31-2	Acétate d'Endo-Fenchyle	0.216
21.88	89-81-6	Pipéritone	0.363
22.69	76-49-3	Acétate de Bornyle	21.206
22.75	125-12-2	Acétate d'Iso-Bornyle	0.515
23.50	491-09-8	Pipériténone	0.402
24.28	150-84-5	Acétate de Citronellyle	0.108
24.33	80-26-2	Acétate d'Alpha-Terpinyle	0.115
25.08	105-87-5	Acétate de géranyle	0.143
25.11	3856-25-5	Alpha-Copaène	0.046
25.46	515-13-9	Béta-Elémène	0.092
26.17	475-20-7	Longifolène	0.210
26.38	87-44-5	Béta-Caryophyllène	0.095
27.32	6753-98-6	Alpha-Humulène	0.060
27.73	-	Hydrocarbure Sesquiterpénique MW 204	0.166
28.33	31983-22-9	Alpha-Muurolène	0.320
28.72	39029-41-9	Gamma-Cadinène	0.430
28.81	189165-79-5	Delta-Cadinène	0.229
28.95	72937-55-4	Cis-Calaménène	0.162
29.28	82468-90-4	Alpha-Cadinène	0.115
30.54	1139-30-6	Oxyde de Caryophyllene	0.185
31.86	5937-11-1	Epi-Alpha-Cadinol	0.141
31.92	19912-62-0	Epi-Alpha-Murrolol	0.119
		Total	95.801

The sample contains no known artificial compound.