



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 **1773**

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

Product No.:	1773
Product Name:	Pine (Jack Pine)
Botanical Name:	Pinus divaricata
Batch No.:	1010326

Bühl, 2021-05-27

Rt	# CAS	Compounds	Fid %
9.08	529-16-8	Santène	2.495
10.60	508-32-7	Tricyclène	1.571
10.71	2867-05-2	Alpha-Thujène	0.078
11.08	80-56-8	Alpha-Pinène	23.046
11.71	79-92-5	Camphène	14.523
11.81	36262-09-6	Thuja-2,4(10)-diène	0.025
12.49	3387-41-5	Sabinène	0.185
12.74	127-91-3	Béta-Pinène	14.769
13.06	123-35-3	Myrcène	3.611
13.79	13466-78-9	Delta-3-Carène	5.405
14.07	99-86-5	Alpha-Terpinène	0.105
14.39	99-87-6	Para-Cymène	0.285
14.54	138-86-3	Limonène	4.664
14.61	555-10-2	Béta-Phéllandréne	1.153
14.68	470-82-6	Eucalyptol	0.973
15.07	3779-61-1	(E)-Béta-Ocimène	0.021
15.52	99-85-4	Gamma-Terpinène	0.141
16.06	5989-33-3	Cis-Oxyde de Linalol (furanoid)	0.037
16.43	586-62-9	Terpinolène	0.722
16.67	1195-79-5+1195-32-0	Fenchone+Para-Cyménène	0.108
16.94	4501-58-0	Alpha-Campholénal	0.173
17.01	78-70-6	Linalol	0.033

Rt	# CAS	Compounds	Fid %
17.69	14575-74-7	Endo-Fenchol	0.046
18.41	547-61-5	Trans-Pinocarvéol	0.215
18.66	76-22-2	Camphre	0.542
18.90	64474-11-9	Hydrate de Camphène	0.476
19.05	547-60-4	Trans-Pinocamphone	0.050
19.43	507-70-0	Bornéol	1.042
19.56	15358-88-0	Cis-Pinocamphone	0.067
19.62	562-74-3	Terpinène-4-ol	0.273
19.93	4371-50-0	Para-Cymèn-9-ol	0.030
20.10	98-55-5	Alpha-Terpinéol	0.877
20.16	564-94-3	Myrténal	0.130
20.65	56282-46-3	Acétate de Exo-Fenchyle	0.185
20.98	1076-56-8	Thymol Méthyl-éther	0.044
22.55	125-12-2	Acétate d'Isobornyle	0.139
22.71	76-49-3	Acétate de Bornyle	15.787
22.77	125-12-2	Acétate d'iso-bornyle	0.491
22.95	1686-15-3	Acétate de Trans-Pinocarvyle	0.088
23.93	20307-84-0	Delta-Elémène	0.110
24.30	150-84-5	Acétate de Citronellyle	0.094
24.33	80-26-2	Acétate d'Alpha-Terpinyle	0.133
24.49	5989-08-2	Alpha-Longipinène	0.039
25.02	14912-44-8	Alpha-Ylangène	0.012
25.09	105-87-3	Acétate de Géranyle	0.179
25.15	3856-25-5	Alpha-Copaène	0.028

Rt	# CAS	Compounds	Fid %
25.48	515-13-9	Béta-Elémène	0.074
26.18	475-20-7	Longifolène	0.225
26.38	87-44-5	Béta-Caryophyllène	0.398
27.32	6753-98-6	Alpha-Humulène	0.119
27.67	20085-11-4	Trans-Cadina-1(6),4-Diène	0.040
27.75	30021-74-0	Gamma-Murolène	0.104
27.96	23986-74-5	Germacrène-D	0.134
28.27	-	Hydrocarbures sesquiterpénique MW204	0.040
28.34	31983-22-9	Alpha-Murolène	0.268
28.74	39029-41-9	Gamma-Cadinène	0.235
28.81	483-76-1	Delta-Cadinène	0.831
28.96	72937-55-4	Cis-Calaménène	0.086
29.28	38758-02-0	Trans-Cadina-1,4-Diène	0.123
30.54	1139-30-6	Oxyde de Caryophyllène	0.103
31.87	5937-11-1	Epi-Alpha-Cadinol	0.075
31.93	19912-62-0	Epi-Alpha-Murolol	0.079
32.20	481-34-5	Alpha-Cadinol	0.132
Total			98.266

The sample contains no known artificial compound.