



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 **1750**

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

Product No.:	1750
Product Name:	Cardamom organic
Botanical Name:	Elettaria cardamomum
Batch No.:	1018907

Bühl, 2019-11-13


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Dr. David Nayan

Rt	# CAS	Compounds	Fid %
10.70	2867-05-2	Alpha Thujène	0.242
11.00	80-56-8	Alpha-Pinène	1.581
11.58	471-84-1	Alpha-Fenchène	0.008
11.65	79-92-5	Camphène	0.036
12.52	3387-41-5	Sabinène	4.462
12.68	127-91-3	Béta-Pinène	0.406
13.05	123-35-3	Myrcène	1.753
13.15	66113-06-2	Déhydro-1,8-Cinéole	0.025
13.68	124-13-0	n-Octanal	0.107
14.07	99-86-5	Alpha-Terpinène	0.100
14.44	99-87-6	Para-Cymène	0.619
14.60	138-86-3	Limonène	2.982
14.65	555-10-2	Béta-Phellandréne	0.118
14.80	470-82-6	Eucalyptol	32.633
14.89	3338-55-4	(Z)-Béta-Ocimène	0.041
15.07	3779-61-1	(E)-Béta-Ocimène	0.076
15.52	99-85-4	Gamma-Terpinène	0.344
16.01	17699-16-0	Cis-Hydrate de Sabinène (IPP vs. OH)	0.379
16.44	586-62-9	Terpinolène	0.185
16.64	1195-32-0	Para-Cyménène	0.034
16.98	78-70-6	Linalol	3.153
17.08	15826-82-1	Trans-Hydrate de Sabinène	0.196
17.30	19945-61-0	(E)-4,8-Diméthylnona-1,3,7-Triène	0.054
19.32	7299-42-5	Delta-Terpinéol	0.090

Rt	# CAS	Compounds	Fid %
19.63	562-74-3	Terpinène-4-ol	0.951
20.11	98-55-5	Alpha-Terpinéol	2.019
20.35	112-31-2	Décanal	0.044
20.58	-	Monoterpène Oxygéné MW 154	0.123
21.33	106-26-3	Néral	0.342
21.52	115-95-7	Acétate de Linalyle	4.036
21.62	106-24-1	Géranol	0.519
22.18	141-27-5	Géranial	0.464
22.65	76-49-3	Acétate de Bornyle	0.022
23.44	93836-50-1	Acetate de Delta-Terpinyle	0.122
23.60	2349-14-6	Géranate de Méthyle	0.048
24.54	80-26-2	Acétate d'Alpha-Terpinyle	39.158
24.62	141-12-8	Acétate de néryle	0.047
25.14	105-87-3	Acétate de Géranyle	0.538
25.52	515-13-9	Béta-Elémène	0.052
26.42	87-44-5	Béta-Caryophyllène	0.017
26.56	29873-99-2	Gamma-Elémène	0.023
26.68	-	Ester de Terpinyle*	0.100
28.01	23986-74-5	Germacrène D	0.034
28.25	17066-67-0	Béta-Sélinène	0.086
28.40	473-13-2	Alpha-Selinène	0.025
28.80	39029-41-9	Gamma-Cadinène	0.100

Rt	# CAS	Compounds	Fid %
29.87	40716-66-3	(E)-Nérolidol	0.818
30.00	15423-57-1	germacrène-B	0.039
		Total	99.350

* Unidentified isomer

The sample contains no known artificial compound.