



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 **2162**

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

Product No.:	2162
Product Name:	Nutmeg, Mace organic
Botanical Name:	Myristica fragrans
Batch No.:	1019428

Bühl, 2019-09-24

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Dr. David Nayan

Rt	# CAS	Compounds	Fid %
10.57	508-32-7	Tricyclène	0.014
10.70	2867-05-2	Alpha-Thujène	2.703
11.06	80-56-8	Alpha-Pinène	13.600
11.59	471-84-1	Fenchène	0.105
11.64	79-92-5	Camphène	0.298
11.80	36262-09-6	Thuja-2,4(10).Diène	0.008
12.53	3387-41-5	Sabinène	8.673
12.73	127-91-3	Béta-Pinène	9.375
13.03	123-35-3	Myrcène	1.832
13.69	99-83-2	Alpha-Phellandréne	1.041
13.75	13466-78-9	Delta-3-Carène	2.362
13.99	470-67-7	1,4-Cinéole	0.072
14.10	99-86-5	Alpha-Terpinène	4.679
14.20	527-84-4	Ortho-Cymène	0.014
14.40	99-87-6	Para-Cymène	2.979
14.55	138-86-3	Limonène	3.641
14.63	555-10-2	Béta-Phéllandréne	2.510
14.68	470-82-6	Eucalyptol	0.112
15.04	3779-61-1	(E)-Béta-Ocimène	0.017
15.57	99-85-4	Gamma-Terpinène	7.584
16.00	17699-16-0	Cis-Hydrate de Sabinène (IPP vs OH)	0.477
16.43	586-62-9	Terpinolène	2.381
16.66	1195-32-0	Para-Cyménène	0.337
16.94	78-70-6	Linalol	0.197

Rt	# CAS	Compounds	Fid %
17.06	15826-82-1	Trans-Hydrate de Sabinène (IPP vs OH)	0.424
17.70	14575-74-7	Endo-Fenchol	0.069
17.83	29803-82-5	Cis-Para-Menth-2ène-1-ol	0.091
18.42	29803-81-4	Trans-Para-Menth-2ène-1-ol	0.101
19.46	507-70-0	Bornéol	0.087
19.71	562-74-3	Terpinen-4-ol	9.128
19.90	1197-01-9	Para-Cymen-8-ol	0.171
19.93	500-02-7	Cryptone	0.026
20.12	98-55-5	Alpha-Terpinéol	1.130
20.50	16721-39-4	Trans-Pipéritol	0.041
21.59	122-03-2	Cumin aldéhyde	0.014
21.90	89-81-6	Pipéritone	0.021
22.63	76-49-3	Acétate de bornyle	0.160
22.95	94-59-7	Safrole	2.214
23.11	-	Inconnu MW178	0.600
23.18	499-75-2	Carvacrol	0.060
24.29	150-84-5	Acétate de Citronellyle	0.114
24.33	80-26-2	Acétate d'Alpha-Terpinyle	0.170
24.63	97-53-0	Eugénol	0.103
25.10	105-87-3	Acétate de Géranyle	0.103
25.14	3856-25-5	Alpha-Copaène	0.361
25.86	93-15-2	Méthyl-Eugénol	1.941
26.40	87-44-5	Béta-Caryophyllène	0.335
26.59	13474-59-4	Alpha-Trans-Bergamotène	0.120

Rt	# CAS	Compounds	Fid %
27.00	18794-84-8	(E)-Béta-Farnésène	0.033
27.20	5932-68-3	(E)-Isoeugénol	0.348
27.32	6753-98-6	Alpha-Humulène	0.063
27.74	30021-74-0	Gamma-Muurolène	0.043
27.96	23986-74-5	Germacrène-D	0.017
28.19	21747-46-6	Viridiflorène	0.024
28.33	6379-72-2	(E)-Méthyl isoeugénol	0.496
28.48	495-61-4	Béta-Bisabolène	0.103
28.72	39029-41-9	Gamma-Cadinène	0.020
28.81	483-76-1	Delta-Cadinène	0.214
28.98	72937-55-4	Cis-Calaménène	0.027
29.11	607-91-0	Myristicine	7.153
29.60	487-11-6	Elémicine	7.097
30.42	6750-60-3	Spathulénol	0.021
30.54	1139-30-6	Oxyde de Caryophyllene	0.041
30.79	6627-88-9	Methoxyeugenol	0.127
31.90	5273-85-8	(E)-Iso-Elémicine	0.308
		Total	98.730