



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 **1065**

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

Product No.:	1065
Product Name:	Angelica Root, Inia
Botanical Name:	Angelica glauca
Batch No.:	1018817

Bühl, 2019-04-10

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Dr. David Nayan

Rt	Components	% Fid
11.83	Alpha-Thujene	0.137
12.11	Alpha-Pinene	0.432
12.73	Camphene	0.032
13.75	Beta-Pinene	0.056
14.11	Myrcene	0.035
14.75	Alpha-Phellandrene	0.108
15.13	Alpha-Terpinene	0.383
15.42	Para-Cymene	2.854
15.60	Limonene	1.599
15.66	Beta-Phellandrene	2.019
15.76	(Z)-Beta-Ocimene	3.652
16.11	E-Beta-Ocimene	0.027
16.58	Gamma-Terpinene	2.462
17.48	Terpinolene	0.435
17.60	Para-Cymenene	0.068
18.82	Allo-Ocimene	0.370
19.82	Pentyl cyclohexa-1,3-diene	0.343
20.55	3-Methyl-Butanoate de 1-Methyl-Butyle	0.805
21.02	Acetate de Nona-4-yle	0.154
21.08	Estragol	0.283
21.97	Thymol Methyl Ether	0.406
25.33	Acetate de Citronnellyle	4.599

Rt	Components	% Fid
25.65	1-Phenyl-Pentanone	0.205
26.08	Acetate de geranyle	0.535
26.25	Alpha-Copaene	0.134
26.58	Beta-Elemene	0.287
26.72	Methyl-Eugenol	0.257
27.13	Alpha-Gurgunene	0.571
27.47	Beta-Caryophyllene	0.088
27.62	Gamma-Elemene	0.491
27.72	Beta-Copaene	0.029
27.97	Aromadendrene	0.588
29.29	Viridiflorene	1.775
29.43	Alpha-Muurolene	0.848
29.82	Gamma-Cadinene	0.226
29.90	Delta-Cadinene	0.960
30.03	7-Epi-Alpha-Selinene	0.244
30.29	Kessane	1.044
30.56	Selina-3,7(11)-Diene	0.283
31.00	Germacrene-B	0.342
31.45	Spathulenol	1.552
31.70	Oxyde de Caryophyllene	0.149
31.96	(Z)-Asarone	0.442
33.10	3-Butyl-Phtalide	0.446

Rt	Components	% Fid
33.62	(3Z)-Butylidene-Phtalide	3.244
34.09	Dimere Pentyl-Cyclohexa-1,3-Diene	3.428
34.39	Sesquiterpene oxygene MW 220	1.050
34.66	(3E)-Butylidene-Phtalide	1.217

Rt	Components	% Fid
34.82	Sedanenolide	1.292
35.22	(Z)-Ligustilide	46.096
36.38	(E)-Ligustilide	1.850
	Total	90.932