



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

1204

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

Product No.:

1204

Product Name:

Frankincense, Brazil (Breu Branco)

Botanical Name:

Protium heptaphyllum

Batch No.:

1015288

Bühl, 2019-04-10

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Dr. David Nayan

Peak Report TIC										
Peak#	R.Time	I.Time	F.Time	Area	Area%	Height	Height%	A/H	Mark	Name
1	2.986	2.958	3.017	201464	0.18	120987	0.18	1.67	MI	3-Thujene
2	3.074	3.033	3.108	26112029	22.90	15783183	23.38	1.65	MI	alpha.-Pinene
3	3.217	3.158	3.258	1209129	1.06	578851	0.86	2.09	MI	Camphene
4	3.464	3.417	3.542	7530119	6.60	4171148	6.18	1.81	MI	beta.-Pinene
5	3.684	3.625	3.725	3856048	3.38	2298335	3.40	1.68	MI	alpha.-Phellandrene
6	3.803	3.775	3.833	1436981	1.26	875032	1.30	1.64	MI	(+)-2-Carene
7	3.891	3.842	3.917	34378138	30.15	19169454	28.40	1.79	MI	p-Cymol
8	3.949	3.917	3.975	7237108	6.35	2974168	4.41	2.43	MI	
9	3.989	3.975	4.017	4646789	4.07	3546474	5.25	1.31	MI	Eucalyptol
10	4.251	4.225	4.283	175523	0.15	119431	0.18	1.47	MI	gamma.-Terpinen
11	4.616	4.575	4.642	770914	0.68	463427	0.69	1.66	MI	Terpinolene
12	4.670	4.642	4.708	552115	0.48	366756	0.54	1.51	MI	
13	5.337	5.300	5.383	3596231	3.15	2001954	2.97	1.80	MI	Dihydro-.alpha.-terpineol
14	5.417	5.383	5.450	795040	0.70	486930	0.72	1.63	MI	(-)-Camphor
15	5.799	5.775	5.825	318888	0.28	207449	0.31	1.54	MI	4-Terpineol
16	5.956	5.925	6.000	1810384	1.59	1079789	1.60	1.68	MI	alpha.-Terpineol
17	6.731	6.700	6.775	1159358	1.02	723816	1.07	1.60	MI	Anthranilic acid, linalyl ester
18	8.156	8.133	8.183	157365	0.14	108223	0.16	1.45	MI	alpha.-Cubebene
19	8.567	8.517	8.567	8003023	7.02	4994886	7.40	1.60	MI	Copaene
20	8.577	8.567	8.600	6146124	5.39	5071379	7.51	1.21	MI	Methyl cinnamate
21	8.723	8.692	8.750	174314	0.15	104721	0.16	1.66	MI	Germacrene D
22	9.024	8.992	9.050	197681	0.17	126357	0.19	1.56	MI	alpha.-Gurjunene
23	9.173	9.133	9.208	1829141	1.60	1070658	1.59	1.71	MI	Caryophyllene
24	9.269	9.242	9.292	62002	0.05	38061	0.06	1.63	MI	
25	9.612	9.567	9.642	376588	0.33	203645	0.30	1.85	MI	
26	9.709	9.683	9.733	85668	0.08	60211	0.09	1.42	MI	
27	9.849	9.817	9.875	112398	0.10	68145	0.10	1.65	MI	
28	9.985	9.967	10.017	94465	0.08	74414	0.11	1.27	MI	
29	10.134	10.108	10.158	78755	0.07	50655	0.08	1.55	MI	
30	10.337	10.317	10.358	43777	0.04	28640	0.04	1.53	MI	
31	10.419	10.383	10.450	732997	0.64	424601	0.63	1.73	MI	delta.-Cadinene
32	11.254	11.233	11.275	95836	0.08	67703	0.10	1.42	MI	Caryophyllene oxide
33	13.364	13.342	13.400	55366	0.05	41466	0.06	1.34	MI	
				114031758	100.00	67500949	100.00			